- Safe for use in potable water environments
- Tested to a water depth of 1000 metres
- Low Bend Radius
- Super Flexible
- Low Smoke Zero Halogen
- High Operating Temperatures

Manufactured & tested to the highest standards

- The water tight jacket on our KF series is manufactured from a specially formulated non-toxic rubber compound which maintains a fully sterile environment when in contact with drinking water.
- LSZH, non-toxic, non-poisonous, non-hazardous and fully compliant with ROHS and REACH directives.
- High continuous operating temperature for hazardous environments or safety margin.

X-HF-110/E-110-R

Flexible LSZH Rubber
Submersible (Potable Water) SDI
0.6/1KV 125°C

SUBMERSIBLE TO 1000M | HIGH FLEXIBILTY | UV RESISTANT | LOW SMOKE ZERO HALOGEN | -40°C / +125°C | 600/1000 VOLTS

Typical Applications
Flexible Rubber Submersible Power cable suitable for applications where cable will come in contact with drinking water.

Standard Core Configuration
1C
2C+E:
3C+E:
4C+E:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110) Cross-Linked, Thermoset, Low Smoke Zero Halogen, Elastomeric Rubber.

Bedding Available on request.

Braid Available on request.

Jacket LSFLEX® E-80 (E-110-R), Cross Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Water Depth
Tested to 1000 metres

Standards
AS/NZS 1125
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 4020
AS/NZS 5000.1
IEC 60228
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	22	3.1	4.6	7.4	84	61	57
1c	10	25	4.1	5.6	8.4	128	86	80
1c	16	28	5.1	6.7	9.4	183	112	105
1c	25	33	6.4	8.4	11.2	275	149	139
1c	35	38	7.8	9.8	12.6	370	184	172
1c	50	43	9.2	11.5	14.2	523	232	217
1c	70	49	10.8	13.3	16.2	704	292	273
1c	95	55	12.8	15.3	18.2	949	352	329
1c	120	61	14.5	17.3	20.4	1171	417	390
1c	150	68	16.3	19.5	22.8	1486	482	450
1c	185	75	18.0	21.7	25.2	1805	552	516
1c	240	83	20.3	24.2	28.0	2314	663	620
1c	300	91	22.5	27.2	30.6	2921	764	714
1c	400	104	26.0	30.7	34.8	3753	915	855
1c	500	115	29.2	34.4	38.5	4733	1059	990
1c	630	128	32.8	38.4	42.7	5936	1235	1154

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177, 179, 185 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

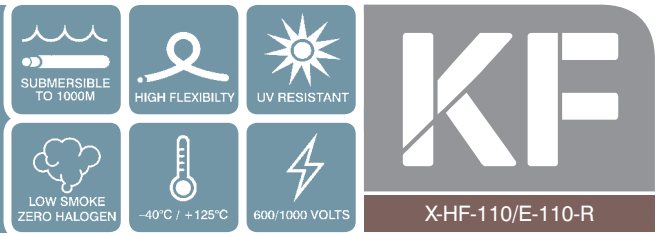
CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible LSZH Rubber

Submersible (Potable Water) Multi-core

0.6/1KV 125°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5 + 1.5E	29	1.5	9.8	100	30	28
2c 2.5 + 2.5E	34	2.1	11.3	144	41	38
2c 4 + 4E	37	2.5	12.3	196	54	50
2c 6 + 6E	42	3.1	14.1	272	67	63
2c 10 + 10E	56	4.1	18.6	469	94	88
2c 16 + 16E	63	5.1	21.1	668	124	116
2c 25 + 25E	77	6.4	25.6	1017	165	154
2c 35 + 35E	88	7.8	29.2	1372	203	190
2c 50 + 50E	100	9.2	33.4	1925	255	238
2c 70 + 70E	114	10.8	38.0	2588	320	299
2c 95 + 95E	130	12.8	43.4	3467	382	357
2c 120 + 120E	145	14.5	48.2	4298	450	421
2c 150 + 150E	162	16.3	54.1	5445	516	482
2c 185 + 185E	179	18.0	59.7	6614	585	547
2c 240 + 240E	199	20.3	66.3	8428	698	652
2c 300 + 300E	218	22.5	72.6	10561	797	745
3c 1.5 + 1.5E	32	1.5	10.7	123	26	24
3c 2.5 + 2.5E	37	2.1	12.4	178	34	32
3c 4 + 4E	41	2.5	13.8	250	45	42
3c 6 + 6E	47	3.1	15.7	347	58	54
3c 10 + 10E	61	4.1	20.4	591	80	75
3c 16 + 16E	69	5.1	23.2	846	106	99
3c 25 + 25E	85	6.4	28.3	1297	140	131
3c 35 + 35E	97	7.8	32.2	1751	173	162
3c 50 + 50E	110	9.2	36.8	2462	218	204
3c 70 + 70E	126	10.8	42.1	3324	273	255
3c 95 + 95E	144	12.8	48.0	4454	327	306
3c 120 + 120E	161	14.5	53.7	5532	385	360
3c 150 + 150E	181	16.3	60.2	7021	442	413
3c 185 + 185E	199	18.0	66.3	8519	503	470
3c 240 + 240E	221	20.3	73.7	10877	598	559
3c 300 + 300E	242	22.5	80.8	13635	683	638
4c 1.5 + 1.5E	35	1.5	11.8	150	26	24
4c 2.5 + 2.5E	42	2.1	13.9	220	34	32
4c 4 + 4E	46	2.5	15.2	304	45	42
4c 6 + 6E	52	3.1	17.2	422	58	54
4c 10 + 10E	67	4.1	22.3	716	80	75
4c 16 + 16E	77	5.1	25.6	1036	106	99
4c 25 + 25E	94	6.4	31.2	1589	140	131
4c 35 + 35E	107	7.8	35.8	2156	173	162
4c 50 + 50E	123	9.2	41.1	3045	218	204
4c 70 + 70E	141	10.8	47.0	4105	273	255
4c 95 + 95E	161	12.8	53.7	5514	327	306
4c 120 + 120E	180	14.5	60.1	6857	385	360
4c 150 + 150E	202	16.3	67.3	8691	442	413
4c 185 + 185E	223	18.0	74.3	10558	503	470
4c 240 + 240E	248	20.3	82.7	13494	598	559

*AS/NZS 3008.1 Table 12/15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 181, 183, 189 and 191 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

SOLAR

Premium DC cables for all solar applications

- Conforms to PV1-F of TUV 2Pfg 1169/08.2007
- Green Star Rated
- Low Bend Radius
- Super Flexible
- Low Smoke Zero Halogen
- Flame Retardant
- High Operating Temperatures

- Very finely stranded tinned copper and proprietary cross-linked compounds, combine to set a new benchmark in performance and flexibility.
- LSZH, non-toxic, non-poisonous, non-hazardous and fully compliant with ROHS and REACH directives.
- High continuous operating temperature for hazardous environments or safety margin.

SF

X-HF-110

Flexible LSZH Rubber

SDI - for Solar Applications

0.9/1.5 KV 120°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +120°C | 900/1500 Vdc

Typical Applications

Flexible Rubber SDI optimised for Solar applications, and also suitable for DC power and Garden Lighting.

Standard Core Configuration

1C: ▭

Construction

Conductor Fine wire tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-20, Cross-Linked, Thermoset, Low Smoke Zero Halogen.

Jacket LSFLEX® X-40, Cross Linked, Thermoset, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Conforms to PV1-F of TUV 2Pfg 1169/08.2007. Anti-Termite/Rodent Jacket is Available.

Operating Temp

-40°C to +120°C

Voltage Rating

900/1500 Volts DC

Core identification

To customers specification

Jacket Colour

Black or to customers specification

Standards

AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 5033

IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c 4	17	2.5	3.9	5.5	56	48	45
1c 6	18	3.1	4.5	6.1	78	61	57
1c 10	21	4.1	5.5	7.1	121	86	80
1c 16	25	5.1	6.6	8.3	174	112	105
1c 25	30	6.4	8.2	9.9	265	149	139
1c 35	34	7.8	9.6	11.3	360	184	172
1c 50	39	9.2	11.3	13.0	511	232	217
1c 70	44	10.8	13.1	14.8	691	292	273
1c 95	50	12.8	15.0	16.8	928	352	329
1c 120	56	14.5	17.0	18.8	1149	417	390
1c 150	63	16.3	19.2	21.0	1456	482	450
1c 185	69	18.0	21.3	23.2	1764	552	516
1c 240	77	20.3	23.8	25.7	2260	663	620
1c 300	86	22.5	26.2	28.7	2859	764	714
1c 400	96	26.0	30.1	32.1	3667	915	855
1c 500	107	29.2	33.7	35.8	4627	1059	990
1c 630	120	32.8	37.7	39.9	5807	1235	1154

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177, 179, 185 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible LSZH Rubber
Figure 8 - for Solar Applications
0.9/1.5 KV 120°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT
FLAME RETARDANT | -40°C / +120°C | 900/1500 Vdc

SD

X-HF-110

Typical Applications
Flexible Rubber Fig 8 cable optimised for Solar applications, and also suitable for DC power and Garden Lighting.

Standard Core Configuration (DC Wiring)

Construction
Conductor Fine wire tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-20, Cross-Linked, Thermoset, Low Smoke Zero Halogen.

Jacket LSFLEX® X-40, Cross Linked, Thermoset, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Conforms to PV1-F of TUV 2Pfg 1169/08.2007. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +120°C

Voltage Rating
900/1500 Volts DC

Core identification
To customers specification

Jacket Colour
Black or to customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 5033
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL HEIGHT (mm)	NOMINAL WIDTH (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 2.5	15	2.1	5.0	10.4	102	36	34
2c 4	16	2.5	5.4	11.2	134	48	45
2c 6	18	3.1	6.0	12.4	176	61	57
2c 10	25	4.1	8.5	17.6	269	86	80
2c 16	29	5.1	9.6	19.8	379	112	105
2c 25	34	6.4	11.2	23.1	570	149	139
2c 35	38	7.8	12.6	26.0	766	184	172
2c 50	43	9.2	14.3	29.3	1076	233	218

*AS/NZS 3008.1 Table 6 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177 and 185 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

TELECOMMUNICATIONS/ DC BATTERY

The industry standard for Telecoms/DC battery cables

- Low Bend Radius
- Super Flexible
- Low Smoke Zero Halogen
- Flame Retardant
- High Operating Temperatures

- Very low bend radius and flexible construction simplify installation and save significant man hours.
- Available in 110°C E-Rubber and 125°C LSZH.
- High continuous operating temperature for hazardous environments or safety margin.

X-HF-110/HFS-110-TP

Flexible LSZH Rubber
Battery/DC
900/1500 Volts dc - 600/1000 Volts ac 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 900/1500V dc 600/1000V ac

Typical Applications
Flexible Rubber Fig 8 cable suitable for dc Telecommunications, dc Power, Battery, UPS, Tunnel Projects, Rail Applications.

Standard Core Configuration (DC Wiring)

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110) Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. 125°C max operating temperature conforms to UL1581.

Jacket LSFLEX® T-10 (HFS-110-TP), Flame Retardant, Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
900/1500 Volts dc
600/1000 Volts ac

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL HEIGHT (mm)	NOMINAL WIDTH (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 2.5	18	2.1	6.5	13.9	120	36	34
2c 4	19	2.5	6.9	14.7	152	48	45
2c 6	21	3.1	7.5	15.9	197	61	57
2c 10	23	4.1	8.6	18.0	288	86	80
2c 16	26	5.1	9.6	20.3	405	112	105
2c 25	31	6.4	11.3	23.7	596	149	139
2c 35	35	7.8	12.7	26.6	795	184	172
2c 50	39	9.2	14.4	30.0	1107	233	218

*AS/NZS 3008.1 Table 6 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177 and 185 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible LSZH Rubber SDI
Battery/DC SDI
600V dc 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 600V dc

CC

X-HF-110/HFS-110-TP

Typical Applications
Flexible Rubber SDI suitable for dc Telecommunications, dc Power, Battery, UPS, Tunnel Projects, Rail applications.

Standard Core Configuration
1C: ▭

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110), Cross-Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. 125°C max operating temperature conforms to UL1581.

Jacket Low-Friction LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600 Volts DC

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1

IEC 60228
IEC 60332-1
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	22	3.1	4.6	7.4	96	61	57
1c	10	25	4.1	5.6	8.4	140	86	80
1c	16	28	5.1	6.7	9.4	197	112	105
1c	25	33	6.4	8.4	11.2	291	149	139
1c	35	38	7.8	9.8	12.6	388	184	172
1c	50	43	9.2	11.5	14.2	541	232	217
1c	70	49	10.8	13.3	16.2	729	292	273
1c	95	55	12.8	15.3	18.2	969	352	329
1c	120	61	14.5	17.3	20.4	1201	417	390
1c	150	68	16.3	19.5	22.8	1521	482	450
1c	185	75	18.0	21.7	24.9	1832	552	516
1c	240	83	20.3	24.2	27.6	2342	663	620
1c	300	91	22.5	27.2	30.3	2881	764	714
1c	400	104	26.0	30.7	34.6	3797	915	855
1c	500	115	29.2	34.4	38.5	4777	1059	990
1c	630	128	32.8	38.4	42.7	5979	1235	1154
1c	800	157	40.3	46.0	52.3	8230	1519***	1420***

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177, 179, 185 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.. ***Unenclosed spaced in air (calculated) AS/NZS 3008.1/ERA report 69.30 part V

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

X-HF-110

Flexible Rubber
Battery/DC
900/1500 Volts dc - 600/1000 Volts ac 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 900/1500V dc 600/1000V ac

Typical Applications
Flexible Rubber Fig 8 cable suitable for dc Telecommunications, dc Power, Battery, UPS, Tunnel Projects, Rail Applications.

Standard Core Configuration (DC Wiring)

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Best Practice PVC. Submersible up to 500 meters. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
900/1500 Volts dc
600/1000 Volts ac

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL HEIGHT (mm)	NOMINAL WIDTH (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 2.5	18	2.1	6.5	13.9	120	36	34
2c 4	19	2.5	6.9	14.7	152	48	45
2c 6	21	3.1	7.5	15.9	197	61	57
2c 10	23	4.1	8.6	18.0	288	86	80
2c 16	26	5.1	9.6	20.3	405	112	105
2c 25	31	6.4	11.3	23.7	596	149	139
2c 35	35	7.8	12.7	26.6	795	184	172
2c 50	39	9.2	14.4	30.0	1107	233	218

*AS/NZS 3008.1 Table 6 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177 and 185 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Battery/DC SDI
600V dc 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600V dc

FP

X-HF-110

Typical Applications
Flexible Rubber SDI suitable for dc Telecommunications, dc Power, Battery, UPS, Tunnel Projects, Rail applications.

Standard Core Configuration
1C: ☐

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Best Practice PVC. Submersible up to 500 meters. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
600 Volts DC

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60502-1

greenstar

NUMBER OF CONDUC TORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	22	3.1	4.6	7.4	96	61	57
1c	10	25	4.1	5.6	8.4	140	86	80
1c	16	28	5.1	6.7	9.4	197	112	105
1c	25	33	6.4	8.4	11.2	291	149	139
1c	35	38	7.8	9.8	12.6	388	184	172
1c	50	43	9.2	11.5	14.2	541	233	218
1c	70	49	10.8	13.3	16.2	729	292	273
1c	95	55	12.8	15.3	18.2	969	352	329
1c	120	61	14.5	17.3	20.4	1201	417	390
1c	150	68	16.3	19.5	22.8	1521	482	450
1c	185	75	18.0	21.7	24.9	1832	552	516
1c	240	83	20.3	24.2	27.6	2342	664	621
1c	300	91	22.5	27.2	30.3	2881	766	716
1c	400	104	26.0	30.7	34.6	3797	920	860
1c	500	115	29.2	34.4	38.5	4777	1069	999
1c	630	128	32.8	38.4	42.7	5979	1250	1168

*AS/NZS 3008.1 Table 6 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177 and 185 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

VARIABLE SPEED DRIVE

VSD/VFD Cables for those tough working conditions

- Low Bend Radius
- Super Flexible
- LSZH or Best Practice PVC
- Flame Retardant
- High Operating Temperatures
- Optional Symmetrical Earths
- Low Mutual Capacitance

- Improved design incorporating aluminium tape under the braid to facilitate 100% screen coverage.
- LSZH (non-toxic, non-poisonous, non-hazardous and fully compliant with ROHS and REACH directives) or Best Practice PVC.
- High continuous operating temperature for hazardous environments or safety margin.
- Extremely low bend radius saves time and simplifies installation.
- 110°C temperature rating allows down-sizing with numerous flow on benefits.
- Copper braid, symmetrical earths and collective aluminium screen, result in very low impedance.

EU

X-HF-110/HFS-110-TP

Flexible LSZH Rubber SDI
Collective Screened & Braided VSD/VFD
0.6/1KV 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 600/1000 VOLTS

Typical Applications
Suitable for fixed wiring application where EMC protection is required.

Standard Core Configuration
1C: ▭

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110) Cross-Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. 125°C max operating temperature conforms to UL1581.

Separator Polypropylene tape

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%)

Separator Polypropylene tape

Jacket LSFLEX® T-10 (HFS-110-TP), Flame Retardant, Cross Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	37	3.1	4.6	5.7	9.2	145	61	57
1c	10	41	4.1	5.6	6.7	10.2	197	86	80
1c	16	45	5.1	6.7	7.7	11.2	261	112	105
1c	25	51	6.4	8.4	9.4	12.8	363	149	139
1c	35	58	7.8	9.8	10.8	14.4	476	184	172
1c	50	64	9.2	11.5	12.4	16.0	644	232	217
1c	70	72	10.8	13.3	14.2	18.1	848	292	273
1c	95	81	12.8	15.3	16.2	20.3	1115	352	329
1c	120	89	14.5	17.3	18.2	22.2	1356	417	390
1c	150	99	16.3	19.5	20.4	24.7	1697	482	450
1c	185	108	18.0	21.7	22.5	27.0	2041	552	516
1c	240	119	20.3	24.2	25.0	29.8	2580	663	620
1c	300	130	22.5	27.2	27.4	32.4	3216	764	714
1c	400	146	26.0	30.7	31.3	36.6	4094	915	855
1c	500	162	29.2	34.4	34.9	40.6	5118	1059	990
1c	630	180	32.8	38.4	38.9	45.1	6390	1235	1154

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 179 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible LSZH Rubber Multi-core
Collective Screened & Braided VSD/VFD
0.6/1KV 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 600/1000 VOLTS

EU

X-HF-110/HFS-110-TP

Typical Applications
125°C Flexible Collective Screened and Braided cable suitable for Variable Speed Drives, Variable Frequency Drives and Electric Motors where Low Smoke Zero Halogen is required. Suitable for downsizing.

Standard Core Configuration

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110) Cross-Linked, Elastomeric, Thermoset, Low Smoke Zero Halogen.

Separator Polypropylene tape

Screen Aluminium/Laminate tape

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Separator Polypropylene tape

Jacket LSFLEX® T-10 (HFS-110-TP), Flame Retardant, Cross Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
Black

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1

IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	53	1.5	8.3	13.2	232	26	24
3c 2.5 + 2.5E	59	2.1	9.7	14.7	298	34	32
3c 4 + 4E	62	2.5	10.7	15.6	371	45	42
3c 6 + 6E	69	3.1	12.1	17.1	473	58	54
3c 10 + 3c 1.5E	75	4.1	13.7	18.8	576	80	75
3c 16 + 3c 2.5E	79	5.1	15.2	19.7	777	106	99
3c 25 + 3c 4E	93	6.4	18.8	23.3	1130	140	131
3c 35 + 3c 6E	105	7.8	21.6	26.2	1500	173	162
3c 50 + 3c 10E	119	9.2	24.9	29.8	2121	218	204
3c 70 + 3c 10E	135	10.8	28.7	33.9	2716	273	255
3c 95 + 3c 16E	154	12.8	32.6	38.6	3668	327	306
3c 120 + 3c 16E	171	14.5	36.6	42.8	4408	385	360
3c 150 + 3c 25E	192	16.3	41.2	48.0	5687	442	413
3c 185 + 3c 25E	211	18.0	45.7	52.7	6701	503	470
3c 240 + 3c 35E	234	20.3	50.9	58.5	8599	598	559
3c 300 + 3c 50E	257	22.5	56.0	64.2	10964	683	638
3c 400 + 3c 50E	293	26.0	64.3	73.2	13647	809	756

***For impedance values - Refer to page 144**

*AS/NZS 3008.1 Table 15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 183 and 191 of this catalogue.**There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

XU

X-90

Flexible Rubber SDI

Collective Screened & Braided VSD/VFD

0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications

Suitable for flexible fixed wiring application where EMC protection is required.

Standard Core Configuration

1C: ☐

Construction

Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90), Cross-Linked, Polyethylene, Elastomeric.

Separator Polypropylene tape

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%)

Separator Polypropylene tape

Jacket E-RUBBER® N-30, Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp

-40°C to +90°C

Voltage Rating

600/1000 Volts

Core identification

To customers specification

Jacket Colour

To customers specification

Standards

AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	37	3.1	4.6	5.7	9.2	145	51	46
1c	10	41	4.1	5.6	6.7	10.2	197	70	64
1c	16	45	5.1	6.7	7.7	11.2	261	94	85
1c	25	51	6.4	8.4	9.4	12.8	363	125	114
1c	35	58	7.8	9.8	10.8	14.4	476	155	141
1c	50	64	9.2	11.5	12.4	16.0	644	196	178
1c	70	72	10.8	13.3	14.2	18.1	848	248	225
1c	95	81	12.8	15.3	16.2	20.3	1115	298	271
1c	120	89	14.5	17.3	18.2	22.2	1356	354	322
1c	150	99	16.3	19.5	20.4	24.7	1697	409	372
1c	185	108	18.0	21.7	22.5	27.0	2041	470	427
1c	240	119	20.3	24.2	25.0	29.8	2580	565	514
1c	300	130	22.5	27.2	27.4	32.4	3216	650	591
1c	400	146	26.0	30.7	31.3	36.6	4094	780	709
1c	500	162	29.2	34.4	34.9	40.6	5118	903	821
1c	630	180	32.8	38.4	38.9	45.1	6390	1052	956

*AS/NZS 3008.1 Table 8 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 176, 178, 184 and 186 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber Multi-core
Collective Screened & Braided VSD/VFD
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

XU
X-90

Typical Applications
90°C Flexible Collective Screened and Braided cable suitable for Variable Speed Drives, Variable Frequency Drives and Electric Motor applications.

Standard Core Configuration

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90), Cross-Linked, Polyethylene.

Separator Polypropylene tape

Screen Aluminium/Laminate tape

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Separator Polypropylene tape

Jacket E-RUBBER® N-30, Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
Black

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	53	1.5	8.3	13.2	232	21	19
3c 2.5 + 2.5E	59	2.1	9.7	14.7	298	29	26
3c 4 + 4E	62	2.5	10.7	15.6	371	37	34
3c 6 + 6E	69	3.1	12.1	17.1	473	47	43
3c 10 + 3c 1.5E	75	4.1	13.7	18.8	576	67	61
3c 16 + 3c 2.5E	79	5.1	15.2	19.7	777	89	81
3c 25 + 3c 4E	93	6.4	18.8	23.3	1130	119	108
3c 35 + 3c 6E	105	7.8	21.6	26.2	1500	149	135
3c 50 + 3c 10E	119	9.2	24.9	29.8	2121	187	170
3c 70 + 3c 10E	135	10.8	28.7	33.9	2716	235	214
3c 95 + 3c 16E	154	12.8	32.6	38.6	3668	282	256
3c 120 + 3c 16E	171	14.5	36.6	42.8	4408	333	303
3c 150 + 3c 25E	192	16.3	41.2	48.0	5687	383	348
3c 185 + 3c 25E	211	18.0	45.7	52.7	6701	436	396
3c 240 + 3c 35E	234	20.3	50.9	58.5	8599	519	472
3c 300 + 3c 50E	257	22.5	56.0	64.2	10964	593	539
3c 400 + 3c 50E	293	26.0	64.3	73.2	13647	702	638

***For impedance values - Refer to page 144**

*AS/NZS 3008.1 Table 14 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 182 and 190 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

X-HF-110

Flexible Rubber SDI

Collective Screened & Braided VSD/VFD

0.6/1KV 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

Typical Applications

Suitable for fixed wiring application where EMC protection is required.

Standard Core Configuration

1C: ▭

Construction

Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Separator Polypropylene tape

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%)

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Best Practice PVC. Submersible up to 500 meters. Anti-Termite/Rodent Jacket is Available.

Operating Temp

-40°C to +110°C

Voltage Rating

600/1000 Volts

Core identification

To customers specification

Jacket Colour

To customers specification

Standards

AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1

IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	37	3.1	4.6	5.7	9.2	145	61	57
1c	10	41	4.1	5.6	6.7	10.2	197	86	80
1c	16	45	5.1	6.7	7.7	11.2	261	112	105
1c	25	51	6.4	8.4	9.4	12.8	363	149	139
1c	35	58	7.8	9.8	10.8	14.4	476	184	172
1c	50	64	9.2	11.5	12.4	16.0	644	232	217
1c	70	72	10.8	13.3	14.2	18.1	848	292	273
1c	95	81	12.8	15.3	16.2	20.3	1115	352	329
1c	120	89	14.5	17.3	18.2	22.2	1356	417	390
1c	150	99	16.3	19.5	20.4	24.7	1697	482	450
1c	185	108	18.0	21.7	22.5	27.0	2041	552	516
1c	240	119	20.3	24.2	25.0	29.8	2580	663	620
1c	300	130	22.5	27.2	27.4	32.4	3216	764	714
1c	400	146	26.0	30.7	31.3	36.6	4094	915	855
1c	500	162	29.2	34.4	34.9	40.6	5118	1059	990
1c	630	180	32.8	38.4	38.9	45.1	6390	1235	1154

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177, 179, 185 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber Multi-core
Collective Screened & Braided VSD/VFD
0.6/1KV 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

KU

X-HF-110

Typical Applications
110°C Flexible Collective Screened and Braided cable suitable for Variable Speed Drives, Variable Frequency Drives, and Electric Motors where there is potential for downsizing.

Standard Core Configuration

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Separator Polypropylene tape

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%)

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Best Practice PVC. Submersible up to 500 meters. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
Black

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1

IEC 60228
IEC 60332-1
IEC 60332-3-22

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	NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c	1.5 + 1.5E	53	1.5	8.3	13.2	232	26	24
3c	2.5 + 2.5E	59	2.1	9.7	14.7	298	34	32
3c	4 + 4E	62	2.5	10.7	15.6	371	45	42
3c	6 + 6E	69	3.1	12.1	17.1	473	58	54
3c	10 + 3c 1.5E	75	4.1	13.7	18.8	576	80	75
3c	16 + 3c 2.5E	79	5.1	15.2	19.7	777	106	99
3c	25 + 3c 4E	93	6.4	18.8	23.3	1130	140	131
3c	35 + 3c 6E	105	7.8	21.6	26.2	1500	173	162
3c	50 + 3c 10E	119	9.2	24.9	29.8	2121	218	204
3c	70 + 3c 10E	135	10.8	28.7	33.9	2716	273	255
3c	95 + 3c 16E	154	12.8	32.6	38.6	3668	327	306
3c	120 + 3c 16E	171	14.5	36.6	42.8	4408	385	360
3c	150 + 3c 25E	192	16.3	41.2	48.0	5687	442	413
3c	185 + 3c 25E	211	18.0	45.7	52.7	6701	503	470
3c	240 + 3c 35E	234	20.3	50.9	58.5	8599	598	559
3c	300 + 3c 50E	257	22.5	56.0	64.2	10964	683	638
3c	400 + 3c 50E	293	26.0	64.3	73.2	13647	809	756

***For impedance values - Refer to page 144**

*AS/NZS 3008.1 Table 15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 183 and 191 of this catalogue.**There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

KG

X-HF-110

Flexible Rubber
Braided/Armoured Power and Control
0.6/1KV 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

Typical Applications
Heavy Duty rubber cable for Flexible Connection where EMC protection is required. Available in both, Power and Control configurations.

Standard Core Configuration
2C:
2C+E:
3C+E:
4C+E:
Control 1 2 3 etc. +

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Screen Aluminium Laminate Tape with Drain Wire.

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant.

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5	55	1.5	8.5	9.1	13.7	220	30	28
2c 2.5	60	2.1	9.7	10.3	14.9	267	41	38
2c 4	64	2.5	10.7	11.3	15.9	320	54	50
2c 6	69	3.1	11.9	12.5	17.1	387	67	63
2c 10	78	4.1	14.1	14.7	19.4	523	94	88
2c 16	85	5.1	16.1	16.7	21.3	679	124	116
2c 25	100	6.4	19.6	20.2	24.9	957	165	154
2c 35	111	7.8	22.5	23.1	27.8	1232	203	190
2c 50	126	9.2	25.7	26.3	31.4	1653	255	238
2c 1.5 + 1.5E	56	1.5	9.0	9.6	14.1	244	30	28
2c 2.5 + 2.5E	62	2.1	10.5	11.1	15.6	303	41	38
2c 4 + 4E	66	2.5	11.3	11.9	16.5	367	54	50
2c 6 + 6E	71	3.1	12.6	13.2	17.9	453	67	63
2c 10 + 10E	81	4.1	15.0	15.6	20.2	628	94	88
2c 16 + 16E	90	5.1	17.2	17.8	22.5	837	124	116
2c 25 + 25E	106	6.4	21.0	21.6	26.4	1206	165	154
2c 35 + 35E	119	7.8	24.1	24.7	29.8	1583	203	190
2c 50 + 50E	134	9.2	27.6	28.2	33.6	2150	255	238
2c 70 + 70E	151	10.8	31.6	32.2	37.8	2828	320	299
2c 95 + 95E	171	12.8	36.0	36.6	42.7	3729	382	357
2c 120 + 120E	191	14.5	40.4	41.0	47.6	4592	450	421
2c 150 + 150E	211	16.3	45.3	45.9	52.8	5749	516	482
2c 185 + 185E	232	18.0	49.9	50.5	57.9	6932	585	547
2c 240 + 240E	257	20.3	55.6	56.2	64.2	8763	698	652

*AS/NZS 3008.1 Table 12 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 181 and 189 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

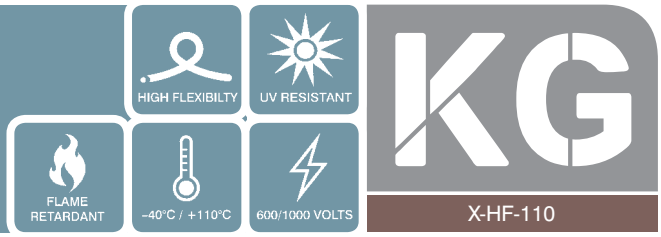
CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber

Braided/Armoured Power and Control

0.6/1KV 110°C



	NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c	1.5 + 1.5E	60	1.5	9.7	10.3	14.9	273	26	24
3c	2.5 + 2.5E	66	2.1	11.3	11.9	16.5	350	34	32
3c	4 + 4E	70	2.5	12.3	12.9	17.5	426	45	42
3c	6 + 6E	77	3.1	13.9	14.5	19.2	533	58	54
3c	10 + 10E	86	4.1	16.3	16.9	21.6	752	80	75
3c	16 + 16E	97	5.1	18.9	19.5	24.2	1023	106	99
3c	25 + 25E	114	6.4	23.1	23.7	28.5	1478	140	131
3c	35 + 35E	130	7.8	26.5	27.1	32.4	1968	173	162
3c	50 + 50E	149	9.2	30.6	31.4	37.2	2768	218	204
3c	70 + 70E	167	10.8	35.1	35.7	41.7	3587	273	255
3c	95 + 95E	188	12.8	40.0	40.6	47.0	4719	327	306
3c	120 + 120E	210	14.5	44.9	45.5	52.4	5828	385	360
3c	150 + 150E	234	16.3	50.5	51.1	58.5	7317	442	413
3c	185 + 185E	257	18.0	55.7	56.3	64.3	8843	503	470
3c	240 + 240E	284	20.3	62.0	62.6	71.1	11196	598	559
4c	1.5 + 1.5E	64	1.5	10.8	11.4	16.0	314	26	24
4c	2.5 + 2.5E	71	2.1	12.4	13.0	17.6	398	34	32
4c	4 + 4E	76	2.5	13.7	14.3	19.0	492	45	42
4c	6 + 6E	82	3.1	15.3	15.9	20.6	626	58	54
4c	10 + 10E	94	4.1	18.2	18.8	23.6	893	80	75
4c	16 + 16E	106	5.1	21.0	21.6	26.4	1223	106	99
4c	25 + 25E	126	6.4	25.8	26.4	31.4	1792	140	131
4c	35 + 35E	143	7.8	29.6	30.2	35.8	2389	173	162
4c	50 + 50E	163	9.2	34.2	34.8	40.7	3293	218	204
4c	70 + 70E	185	10.8	39.2	39.8	46.2	4374	273	255
4c	95 + 95E	210	12.8	44.9	45.5	52.4	5803	327	306
4c	120 + 120E	234	14.5	50.4	51.0	58.4	7146	385	360
4c	150 + 150E	260	16.3	56.4	57.0	65.0	8991	442	413
4c	185 + 185E	286	18.0	62.4	63.0	71.5	10866	503	470
4c	240 + 240E	317	20.3	69.5	70.1	79.4	13796	598	559
7c	1.5	67	1.5	11.7	12.3	16.8	386	-	-
10c	1.5	80	1.5	14.7	15.3	19.9	505	-	-
12c	1.5	82	1.5	15.2	15.8	20.5	553	-	-
14c	1.5	85	1.5	16.0	16.6	21.2	604	-	-
16c	1.5	89	1.5	17.1	17.7	22.3	668	-	-
19c	1.5	93	1.5	17.9	18.5	23.3	741	-	-
21c	1.5	97	1.5	19.0	19.6	24.3	798	-	-
24c	1.5	105	1.5	20.9	21.5	26.3	901	-	-
27c	1.5	108	1.5	21.5	22.1	26.9	967	-	-
30c	1.5	111	1.5	22.3	22.9	27.6	1036	-	-
33c	1.5	115	1.5	23.1	23.7	28.8	1121	-	-
37c	1.5	120	1.5	24.2	24.8	29.9	1225	-	-
7c	2.5	75	2.1	13.7	14.3	18.9	501	-	-
10c	2.5	90	2.1	17.2	17.8	22.5	664	-	-
12c	2.5	93	2.1	17.9	18.5	23.3	735	-	-
14c	2.5	97	2.1	18.8	19.4	24.2	809	-	-
16c	2.5	101	2.1	19.9	20.5	25.3	887	-	-
19c	2.5	106	2.1	21.2	21.8	26.5	1006	-	-
21c	2.5	111	2.1	22.4	23.0	27.8	1088	-	-
24c	2.5	122	2.1	24.7	25.3	30.4	1244	-	-
27c	2.5	124	2.1	25.4	26.0	31.1	1344	-	-
30c	2.5	129	2.1	26.3	26.9	32.2	1462	-	-
33c	2.5	134	2.1	27.6	28.2	33.5	1585	-	-
37c	2.5	138	2.1	28.6	29.2	34.6	1721	-	-

*AS/NZS 3008.1 Table 15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 183 and 191 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

DP

X-90

Flexible Rubber
Collective Screened & Braided EMC
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications
Suitable for flexible fixed wiring application where EMC protection is required.

Standard Core Configuration
2C+E:
3C+E:
4C+E:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90), Cross-Linked, Polyethylene.

Separator Polypropylene tape

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Separator Polypropylene tape

Jacket E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

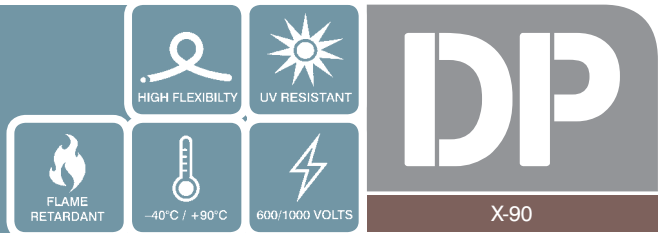
NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5 +1.5E	47	1.5	7.5	11.8	189	25	23
2c 2.5 +2.5E	53	2.1	8.8	13.2	254	33	30
2c 4 + 4E	56	2.5	9.7	14.0	313	44	40
2c 6 + 6E	61	3.1	11.0	15.3	396	56	51
2c 10 + 4E	67	4.1	12.4	16.8	502	79	72
2c 16 + 6E	75	5.1	14.5	18.9	686	106	96
2c 25 + 6E	90	6.4	17.9	22.4	951	141	128
2c 35 + 10E	101	7.8	20.8	25.3	1253	174	158
2c 50 + 16E	115	9.2	24.0	28.9	1690	219	199
2c 70 + 25E	131	10.8	27.7	32.8	2245	276	251
2c 95 + 25E	149	12.8	31.7	37.1	2974	330	300
2c 120 + 35E	166	14.5	35.6	41.5	3693	391	355
2c 150 + 50E	185	16.3	40.1	46.3	4663	449	408
2c 185 + 70E	204	18.0	44.4	51.0	5695	510	464
2c 240 + 95E	226	20.3	49.4	56.4	7194	609	554

*AS/NZS 3008.1 Table 11 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 180 and 188 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Collective Screened & Braided EMC
0.6/1KV 90°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	50	1.5	8.3	12.5	222	21	19
3c 2.5 + 2.5E	56	2.1	9.7	14.1	289	29	26
3c 4 + 4E	60	2.5	10.7	15.0	362	37	34
3c 6 + 6E	66	3.1	12.1	16.5	445	47	43
3c 10 + 4E	71	4.1	13.4	17.9	566	67	61
3c 16 + 6E	80	5.1	15.6	20.1	812	89	81
3c 25 + 6E	96	6.4	19.4	24.0	1146	119	108
3c 35 + 10E	109	7.8	22.5	27.1	1528	149	135
3c 50 + 16E	124	9.2	26.1	30.9	2088	187	170
3c 70 + 25E	142	10.8	30.0	35.4	2862	235	214
3c 95 + 25E	160	12.8	34.5	40.1	3703	282	256
3c 120 + 35E	179	14.5	38.7	44.8	4606	333	303
3c 150 + 50E	200	16.3	43.5	50.0	5842	383	348
3c 185 + 70E	221	18.0	48.2	55.2	7139	436	396
3c 240 + 95E	245	20.3	53.7	61.2	9111	519	472
3c 300 + 120E	268	22.5	59.0	67.0	11372	593	539
4c 1.5 + 1.5E	54	1.5	9.1	13.5	253	21	19
4c 2.5 + 2.5E	60	2.1	10.8	15.1	330	29	26
4c 4 + 4E	65	2.5	11.8	16.2	420	37	34
4c 6 + 6E	71	3.1	13.5	17.9	543	47	43
4c 10 + 4E	78	4.1	15.0	19.5	706	67	61
4c 16 + 6E	88	5.1	17.5	22.0	988	89	81
4c 25 + 6E	106	6.4	21.8	26.4	1418	119	108
4c 35 + 10E	121	7.8	25.3	30.2	1882	149	135
4c 50 + 16E	138	9.2	29.3	34.5	2611	187	170
4c 70 + 25E	158	10.8	33.8	39.5	3588	235	214
4c 95 + 25E	180	12.8	38.8	45.0	4695	282	256
4c 120 + 35E	200	14.5	43.6	50.1	5812	333	303
4c 150 + 50E	224	16.3	49.1	56.1	7390	383	348
4c 185 + 70E	247	18.0	54.4	61.8	9013	436	396

*AS/NZS 3008.1 Table 14 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 182 and 190 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

DP

X-90

Flexible Rubber Control
Collective Screened & Braided EMC
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications
Suitable for flexible fixed wiring application where EMC protection is required.

Standard Core Configuration
1 | 2 | 3 etc. +

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90) Cross-linked, Polyethylene and individually numbered.

Separator Polypropylene tape

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%) Aluminium laminate tape under braid.

Separator Polypropylene tape

Jacket E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

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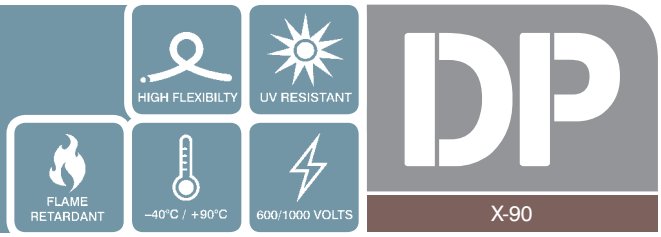
NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
6c 1.5	58	1.5	10.0	14.4	311
7c 1.5	58	1.5	10.0	14.4	328
10c 1.5	69	1.5	12.8	17.2	452
12c 1.5	71	1.5	13.4	17.9	503
14c 1.5	74	1.5	14.1	18.6	558
16c 1.5	78	1.5	15.0	19.5	618
19c 1.5	82	1.5	15.9	20.4	698
21c 1.5	86	1.5	16.9	21.4	764
24c 1.5	93	1.5	18.7	23.2	872
27c 1.5	95	1.5	19.3	23.8	945
30c 1.5	98	1.5	20.0	24.6	1022
33c 1.5	102	1.5	20.9	25.5	1106
37c 1.5	105	1.5	21.8	26.3	1208

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber Control
Collective Screened & Braided EMC
0.6/1KV 90°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
6c 2.5	65	2.1	11.8	16.2	415
7c 2.5	65	2.1	11.8	16.2	443
10c 2.5	78	2.1	15.2	19.6	617
12c 2.5	82	2.1	15.9	20.4	693
14c 2.5	85	2.1	16.8	21.2	775
16c 2.5	89	2.1	17.8	22.3	863
19c 2.5	94	2.1	18.9	23.5	980
21c 2.5	99	2.1	20.1	24.7	1077
24c 2.5	107	2.1	22.3	26.8	1234
27c 2.5	110	2.1	23.0	27.5	1342
30c 2.5	114	2.1	23.8	28.5	1459
33c 2.5	119	2.1	24.9	29.8	1595
37c 2.5	123	2.1	26.0	30.8	1748

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

WELDING

- Low Bend Radius
- Super Flexible
- Excellent Abrasion Resistance
- Splatter Resistant
- Flame Retardant
- High Operating Temperatures

Flexible Rubber
Welding/Battery
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

RW

X-90

Typical Applications
Flexible cable suitable for Welding applications.

Standard Core Configuration
1C: ☐

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90), Crosslinked, Thermoset, Elastomeric.

Jacket E-RUBBER® N-30, Thermoplastic, Elastomeric, Flame Retardant.
Splash resistant to oil, skydrol, petrol, acid and sea water.
Resists ozone and UV. Excellent abrasion resistance.
Submersible to 500m. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
White

Jacket Colour
Orange

Standards
AS/NZS 1125
AS/NZS 1660.5.6
AS/NZS 1995
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1c	10	25	4.1	5.6	8.4	140
1c	16	28	5.1	6.7	9.4	197
1c	25	33	6.4	8.4	11.2	291
1c	35	38	7.8	9.8	12.6	388
1c	50	43	9.2	11.5	14.2	541
1c	70	49	10.8	13.3	16.2	729
1c	95	55	12.8	15.3	18.2	969
1c	120	61	14.5	17.3	20.4	1201
1c	150	68	16.3	19.5	22.8	1521
1c	185	75	18.0	21.7	24.9	1832
1c	240	83	20.3	24.2	27.6	2342

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CURRENT RATING (+40°C AMBIENT AIR TEMPERATURE)

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		CURRENT RATING (Amps)* 30 second duty cycle (percent) 100	60	30	25
1c	10	90	120	165	180
1c	16	125	160	225	245
1c	25	165	210	300	330
1c	35	205	265	375	410
1c	50	260	335	475	520
1c	70	325	415	590	645
1c	95	390	505	715	780
1c	120	455	585	830	910
1c	150	535	690	975	1070
1c	185	600	775	1095	1200
1c	240	715	920	1305	1430

CURRENT RATING (+30°C AMBIENT AIR TEMPERATURE)

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		CURRENT RATING (Amps)* 30 second duty cycle (percent) 100	60	30	25
1c	10	100	133	183	200
1c	16	139	178	250	272
1c	25	183	233	333	366
1c	35	228	294	416	455
1c	50	289	372	527	577
1c	70	361	461	655	716
1c	95	433	561	794	866
1c	120	505	649	921	1010
1c	150	594	766	1082	1188
1c	185	666	860	1215	1332
1c	240	794	1021	1449	1587

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TRICAB	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

INSTRUMENTATION

Robust and reliable screened Instrumentation

- Low Bend Radius
- Super Flexible
- Low Smoke Zero Halogen
- Flame Retardant
- High Operating Temperatures
- Conforms to AS/NZS5000.3

- Flexible 110°C E-Rubber Jacket resists oils, solvents, sea water, ozone and UV exposure.
- High continuous operating temperature for hazardous environments or safety margin.

RE

X-HF-110

Flexible Rubber
Collective Screened Instrumentation
450/750V 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 450/750 VOLTS

Typical Applications
Flexible collective screened instrumentation cable suitable for Communications, Control and Alarm Circuit applications where exposure to mechanical damage is absent.

Standard Core Configuration
PAIR:
TRIAD:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Thermoplastic, Elastomeric, Flame Retardant.

Screen Aluminium Laminate Tape

Drain wire Tinned annealed copper

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
450/750 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.3
IEC 60228
IEC 60332-1
IEC 60332-3-22
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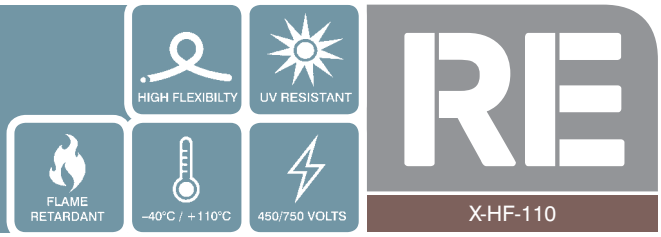
NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p	0.5	25	0.95	8.3	62
2p	0.5*	27	0.95	9.1	78
4p	0.5	41	0.95	13.7	126
8p	0.5	51	0.95	17.0	208
10p	0.5	55	0.95	18.4	246
12p	0.5	60	0.95	20.0	290
16p	0.5	65	0.95	21.8	361
20p	0.5	69	0.95	23.1	434
24p	0.5	73	0.95	24.5	503
27p	0.5	77	0.95	25.8	563
36p	0.5	87	0.95	29.1	727
1p	0.75	26	1.2	8.8	72
2p	0.75*	29	1.2	9.7	93
3p	0.75	41	1.2	13.6	129
4p	0.75	43	1.2	14.4	154
5p	0.75	46	1.2	15.4	180
6p	0.75	49	1.2	16.4	210
7p	0.75	53	1.2	17.5	238
8p	0.75	55	1.2	18.5	263
10p	0.75	60	1.2	20.1	319
12p	0.75	65	1.2	21.7	371
14p	0.75	69	1.2	23.1	426
16p	0.75	72	1.2	24.0	474
20p	0.75	75	1.2	25.1	566
24p	0.75	80	1.2	26.8	668
27p	0.75	84	1.2	28.2	740
36p	0.75	96	1.2	31.9	971

* Laid up in quad formation ** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Collective Screened Instrumentation
450/750V 110°C



NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 1.0	27	1.3	9.0	81
2p 1.0*	31	1.3	10.2	108
4p 1.0	45	1.3	15.1	176
8p 1.0	57	1.3	19.1	302
10p 1.0	62	1.3	20.7	367
12p 1.0	68	1.3	22.6	434
16p 1.0	74	1.3	24.8	548
20p 1.0	78	1.3	26.1	664
24p 1.0	83	1.3	27.7	776
27p 1.0	88	1.3	29.3	869
36p 1.0	99	1.3	33.0	1130
1p 1.5	29	1.5	9.6	97
2p 1.5*	33	1.5	10.9	135
4p 1.5	50	1.5	16.6	230
6p 1.5	55	1.5	18.5	310
8p 1.5	63	1.5	21.0	401
10p 1.5	69	1.5	22.8	489
12p 1.5	74	1.5	24.8	571
16p 1.5	82	1.5	27.3	736
20p 1.5	87	1.5	28.9	897
24p 1.5	92	1.5	30.6	1052
27p 1.5	97	1.5	32.3	1179
36p 1.5	109	1.5	36.4	1539
1p 2.5	33	2.1	11.0	134
2p 2.5*	37	2.1	12.3	188
4p 2.5	58	2.1	19.4	330
8p 2.5	74	2.1	24.7	591
10p 2.5	81	2.1	26.9	722
12p 2.5	88	2.1	29.4	857
16p 2.5	97	2.1	32.4	1109
20p 2.5	102	2.1	34.0	1343
24p 2.5	109	2.1	36.4	1593
27p 2.5	115	2.1	38.4	1785
36p 2.5	130	2.1	43.2	2339

* Laid up in quad formation ** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1t 0.75	26	1.2	8.7	92
3t 0.75	38	1.2	12.6	169
4t 0.75	42	1.2	14.0	213
7t 0.75	50	1.2	16.7	333
8t 0.75	55	1.2	18.3	344
1t 1.5	31	1.5	10.3	137
3t 1.5	47	1.5	15.5	261
4t 1.5	51	1.5	17.0	333
7t 1.5	62	1.5	20.6	526
12t 1.5	70	1.5	23.5	826

* Laid up in quad formation ** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

X-HF-110

Flexible Rubber
Individual & Collective Screened Instrumentation - 450/750V 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 450/750 VOLTS

Typical Applications
Flexible individual and collective screened instrumentation cable suitable for Communications, Control and Alarm Circuit applications where exposure to mechanical damage is absent.

Standard Core Configuration
PAIR:
TRIAD:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Thermoplastic, Elastomeric, Flame Retardant.

Screen Aluminium/Laminate tape, Individual & Collective

Drain wire Tinned annealed copper

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
450/750 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.3
IEC 60228
IEC 60332-1
IEC 60332-3-22

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NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p	0.5	25	0.95	8.3	77
2p	0.5	38	0.95	12.5	138
4p	0.5	45	0.95	14.9	187
8p	0.5	56	0.95	18.8	311
10p	0.5	62	0.95	20.5	376
12p	0.5	66	0.95	22.1	435
16p	0.5	73	0.95	24.4	554
20p	0.5	77	0.95	25.7	666
24p	0.5	82	0.95	27.3	771
27p	0.5	87	0.95	28.9	864
36p	0.5	97	0.95	32.4	1117
1p	0.75	26	1.2	8.8	88
2p	0.75	41	1.2	13.7	165
3p	0.75	44	1.2	14.7	205
4p	0.75	48	1.2	16.0	218
5p	0.75	52	1.2	17.3	263
8p	0.75	61	1.2	20.4	381
10p	0.75	66	1.2	22.0	452
12p	0.75	72	1.2	24.1	536
14p	0.75	76	1.2	25.3	604
16p	0.75	80	1.2	26.6	683
20p	0.75	83	1.2	27.7	811
24p	0.75	89	1.2	29.8	956
27p	0.75	94	1.2	31.2	1057
36p	0.75	106	1.2	35.4	1387

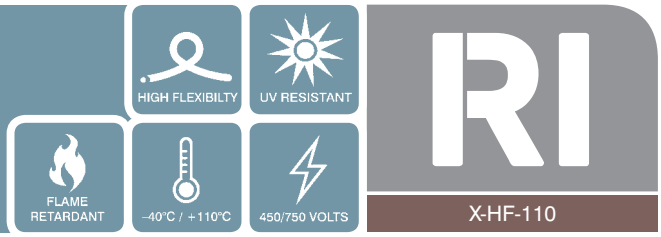
** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber

Individual & Collective Screened Instrumentation - 450/750V 110°C



NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 1.0	27	1.3	9.0	99
2p 1.0	42	1.3	14.0	190
4p 1.0	50	1.3	16.6	268
8p 1.0	63	1.3	21.0	462
10p 1.0	69	1.3	22.8	563
12p 1.0	74	1.3	24.8	655
16p 1.0	82	1.3	27.3	842
20p 1.0	87	1.3	28.9	1019
24p 1.0	92	1.3	30.6	1190
27p 1.0	97	1.3	32.3	1334
36p 1.0	109	1.3	36.4	1736
1p 1.5	29	1.5	9.6	117
2p 1.5	45	1.5	15.0	223
3p 1.5	49	1.5	16.4	294
4p 1.5	53	1.5	17.6	320
5p 1.5	57	1.5	18.9	378
8p 1.5	69	1.5	23.0	575
10p 1.5	74	1.5	24.8	690
12p 1.5	81	1.5	27.0	818
16p 1.5	90	1.5	29.9	1054
20p 1.5	94	1.5	31.3	1266
24p 1.5	100	1.5	33.5	1497
27p 1.5	106	1.5	35.4	1679
36p 1.5	120	1.5	39.9	2189
50p 1.5	162	1.5	54.2	3150
1p 2.5	33	2.1	11.0	161
2p 2.5	52	2.1	17.3	303
4p 2.5	62	2.1	20.7	446
8p 2.5	80	2.1	26.6	805
10p 2.5	87	2.1	29.1	983
12p 2.5	95	2.1	31.5	1152
16p 2.5	105	2.1	35.1	1505
20p 2.5	110	2.1	36.7	1815
24p 2.5	118	2.1	39.3	2149
27p 2.5	124	2.1	41.4	2409
36p 2.5	140	2.1	46.7	3147

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NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1t 0.5	26	0.95	8.7	82
3t 0.5	42	0.95	14.0	183
4t 0.5	46	0.95	15.2	222
7t 0.5	55	0.95	18.3	345
12t 0.5	83	0.95	27.7	606
1t 0.75	28	1.2	9.2	95
3t 0.75	45	1.2	15.0	215
4t 0.75	50	1.2	16.5	272
7t 0.75	60	1.2	19.9	424
8t 0.75	75	1.2	25.1	563
9t 0.75	75	1.2	25.1	556
12t 0.75	91	1.2	30.2	749
1t 1.5	31	1.5	10.3	132
3t 1.5	50	1.5	16.8	311
4t 1.5	55	1.5	18.4	389
7t 1.5	66	1.5	22.1	620
12t 1.5	102	1.5	34.1	1095

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CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

X-HF-110

Flexible Rubber
Collective Screened Braided/Armoured Instrumentation - 450/750V 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 450/750 VOLTS

Typical Applications
Flexible collective screened instrumentation cable suitable for Communications, Control and Alarm Circuit applications where mechanical or EMC protection is required.

Standard Core Configuration
PAIR:

TRIAD:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Screen Aluminium/Laminate tape

Drain wire Tinned annealed copper

Separator Polypropylene tape

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant.

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
450/750 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.3
IEC 60228
IEC 60332-1
IEC 60332-3-22

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NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 0.5	46	0.95	7.4	8.0	11.5	176
2p 0.5	49	0.95	8.2	8.8	12.2	198
4p 0.5	66	0.95	12.0	12.6	16.5	308
8p 0.5	79	0.95	14.9	15.5	19.8	440
10p 0.5	84	0.95	16.1	16.7	20.9	493
12p 0.5	91	0.95	17.6	18.2	22.6	569
16p 0.5	97	0.95	19.2	19.8	24.3	663
20p 0.5	102	0.95	20.3	20.9	25.6	765
24p 0.5	108	0.95	21.5	22.1	26.9	852
27p 0.5	112	0.95	22.5	23.1	27.9	919
36p 0.5	124	0.95	25.4	26.0	31.1	1141
1p 0.75	48	1.2	7.9	8.5	12.0	194
2p 0.75	51	1.2	8.8	9.4	12.9	222
4p 0.75	71	1.2	13.0	13.6	17.6	353
8p 0.75	85	1.2	16.4	17.0	21.2	517
10p 0.75	92	1.2	17.8	18.4	23.0	605
12p 0.75	98	1.2	19.3	19.9	24.4	677
14p 0.75	107	1.2	21.3	21.9	26.7	824
20p 0.75	111	1.2	22.3	22.9	27.7	930
24p 0.75	118	1.2	23.9	24.5	29.5	1071
27p 0.75	123	1.2	25.0	25.6	30.7	1161
36p 0.75	137	1.2	28.2	28.8	34.2	1449

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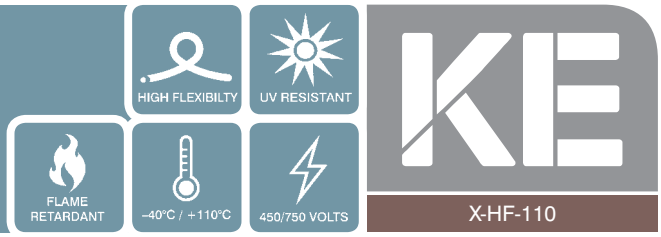
CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber

Collective Screened Braided/Armoured Instrumentation - 450/750V 110°C



NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 1.0	51	1.3	8.6	9.2	12.8	221
2p 1.0	55	1.3	9.6	10.2	13.9	265
4p 1.0	78	1.3	14.6	15.2	19.5	436
8p 1.0	82	1.3	15.6	16.2	20.5	487
10p 1.0	91	1.3	17.5	18.1	22.6	601
12p 1.0	95	1.3	18.5	19.1	23.7	651
16p 1.0	100	1.3	19.9	20.5	25.1	742
20p 1.0	109	1.3	21.8	22.4	27.2	862
24p 1.0	119	1.3	24.1	24.7	29.8	1055
27p 1.0	124	1.3	25.2	25.8	30.9	1201
36p 1.0	132	1.3	27.0	27.6	32.9	1386
1p 1.5	137	1.5	28.3	28.9	34.3	1508
2p 1.5	153	1.5	32.0	32.6	38.4	1911
3p 1.5	54	1.5	9.2	9.8	13.6	253
4p 1.5	60	1.5	10.5	11.1	14.9	311
5p 1.5	83	1.5	15.9	16.5	20.8	507
8p 1.5	97	1.5	19.1	19.7	24.3	715
10p 1.5	103	1.5	20.4	21.0	25.8	802
12p 1.5	110	1.5	22.0	22.6	27.4	920
16p 1.5	119	1.5	24.1	24.7	29.7	1071
20p 1.5	129	1.5	26.4	27.0	32.3	1305
24p 1.5	135	1.5	27.9	28.5	33.8	1515
27p 1.5	143	1.5	29.6	30.2	35.8	1739
36p 1.5	150	1.5	31.3	31.9	37.5	1917
50p 1.5	168	1.5	35.3	35.9	42.0	2441
1p 2.5	60	2.1	10.6	11.2	15.0	314
2p 2.5	66	2.1	11.9	12.5	16.5	395
4p 2.5	95	2.1	18.6	19.2	23.8	668
8p 2.5	119	2.1	24.0	24.6	29.7	1078
10p 2.5	127	2.1	26.0	26.6	31.8	1264
12p 2.5	137	2.1	28.4	29.0	34.4	1458
16p 2.5	151	2.1	31.4	32.0	37.6	1811
20p 2.5	157	2.1	32.9	33.5	39.4	2119
24p 2.5	168	2.1	35.3	35.9	41.9	2462
27p 2.5	176	2.1	37.2	37.8	44.0	2718
36p 2.5	197	2.1	42.0	42.6	49.3	3476

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1t 0.5	49	1.2	8.3	8.9	12.3	205
3t 0.5	67	1.2	12.2	12.8	16.8	347
4t 0.5	71	1.2	13.3	13.9	17.9	399
7t 0.5	84	1.2	16.0	16.6	20.9	530
12t 0.5	84	1.2	16.0	16.6	20.9	562
1t 0.75	53	1.3	9.0	9.6	13.4	243
3t 0.75	73	1.3	13.7	14.3	18.4	424
4t 0.75	79	1.3	15.0	15.6	19.8	503
7t 0.75	93	1.3	18.1	18.7	23.3	718
8t 0.75	56	1.5	9.7	10.3	14.0	274
9t 0.75	79	1.5	14.9	15.5	19.8	509
12t 0.75	85	1.5	16.3	16.9	21.2	598
1t 1.5	100	1.5	19.8	20.4	24.9	873
3t 1.5	143	1.5	29.6	30.2	35.8	1740
4t 1.5	62	2.1	11.2	11.8	15.5	345
7t 1.5	91	2.1	17.5	18.1	22.6	674
12t 1.5	97	2.1	19.2	19.8	24.3	806

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CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

X-HF-110

Flexible Rubber
Individual and Collective Screened Braided/Armoured Instrumentation 450/750V 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 450/750 VOLTS

Typical Applications
Flexible individual and collective screened instrumentation cable suitable for Communications, Control and Alarm Circuit applications where exposure to mechanical damage is absent.

Standard Core Configuration
PAIR:
TRIAD:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110), Cross-Linked, Thermoset, Elastomeric.

Screen Individual and Collective Aluminium/Laminate tape

Drain wire Tinned annealed copper

Separator Polypropylene tape

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant.

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
450/750 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.3
IEC 60228
IEC 60332-1
IEC 60332-3-22
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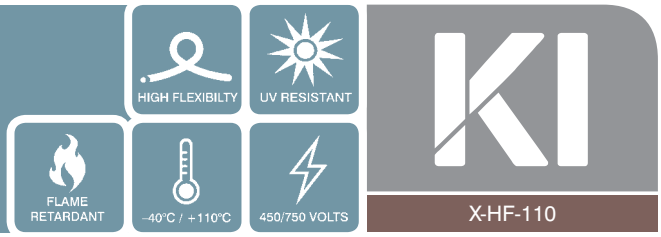
NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 0.5	48	0.95	7.9	8.5	12.0	193
2p 0.5	67	0.95	12.1	12.7	16.7	366
4p 0.5	76	0.95	14.4	15.0	19.1	411
8p 0.5	93	0.95	18.2	18.8	23.4	620
10p 0.5	99	0.95	19.7	20.3	24.8	705
12p 0.5	107	0.95	21.5	22.1	26.8	817
16p 0.5	118	0.95	23.7	24.3	29.4	996
20p 0.5	122	0.95	24.8	25.4	30.5	1128
24p 0.5	129	0.95	26.4	27.0	32.2	1285
27p 0.5	135	0.95	27.9	28.5	33.8	1411
36p 0.5	151	0.95	31.4	32.0	37.6	1767
1p 0.75	50	1.2	8.4	9.0	12.5	212
2p 0.75	70	1.2	13.0	13.6	17.5	415
4p 0.75	81	1.2	15.5	16.1	20.3	468
8p 0.75	99	1.2	19.6	20.2	24.8	706
10p 0.75	107	1.2	21.4	22.0	26.8	831
12p 0.75	115	1.2	23.2	23.8	28.8	951
14p 0.75	125	1.2	25.6	26.2	31.3	1152
20p 0.75	132	1.2	27.0	27.6	32.9	1342
24p 0.75	139	1.2	28.7	29.3	34.7	1518
27p 0.75	146	1.2	30.4	31.0	36.5	1686
36p 0.75	163	1.2	34.3	34.9	40.7	2119

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Individual and Collective Screened Braided/Armoured Instrumentation
450/750V 110°C



NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 1.0	51	1.3	8.6	9.2	12.8	223
2p 1.0	72	1.3	13.3	13.9	18.0	446
3p 1.0	78	1.3	14.6	15.2	19.5	401
4p 1.0	82	1.3	15.6	16.2	20.5	502
8p 1.0	103	1.3	20.4	21.0	25.8	801
10p 1.0	110	1.3	22.0	22.6	27.4	918
12p 1.0	119	1.3	24.1	24.7	29.7	1067
16p 1.0	129	1.3	26.4	27.0	32.3	1298
20p 1.0	135	1.3	27.9	28.5	33.8	1506
24p 1.0	143	1.3	29.6	30.2	35.8	1727
27p 1.0	150	1.3	31.3	31.9	37.5	1902
36p 1.0	168	1.5	35.3	35.9	42.0	2420
1p 1.5	54	1.5	9.2	9.8	13.6	255
2p 1.5	78	1.5	14.5	15.1	19.4	532
4p 1.5	89	1.5	17.4	18.0	22.2	591
8p 1.5	110	1.5	22.1	22.7	27.5	932
10p 1.5	119	1.5	24.1	24.7	29.8	1105
12p 1.5	128	1.5	26.1	26.7	32.0	1271
16p 1.5	140	1.5	28.9	29.5	35.1	1574
20p 1.5	147	1.5	30.5	31.1	36.7	1834
24p 1.5	155	1.5	32.4	33.0	38.9	2109
27p 1.5	163	1.5	34.3	34.9	40.7	2328
36p 1.5	183	1.5	38.7	39.3	45.7	2971
1p 2.5	60	1.5	10.6	11.2	15.0	317
2p 2.5	86	1.5	16.6	17.2	21.4	680
4p 2.5	100	2.1	19.9	20.5	25.0	754
8p 2.5	126	2.1	25.7	26.3	31.4	1233
10p 2.5	136	2.1	28.1	28.7	34.1	1467
12p 2.5	147	2.1	30.7	31.3	36.8	1712
16p 2.5	162	2.1	33.9	34.5	40.4	2132
20p 2.5	169	2.1	35.6	36.2	42.2	2500
24p 2.5	180	2.1	38.1	38.7	45.0	2909
27p 2.5	188	2.1	40.0	40.6	47.0	3193
36p 2.5	212	2.1	45.4	46.0	52.9	4116

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1t 0.75	53	1.2	8.8	9.4	13.2	206
3t 0.75	76	1.2	14.5	15.1	19.1	397
4t 0.75	82	1.2	15.8	16.4	20.6	469
7t 0.75	97	1.2	19.1	19.7	24.2	665
12t 0.75	124	1.2	25.5	26.1	31.1	1028
19t 0.75	166	1.2	34.7	35.3	41.4	1600
1t 1.0	53	1.3	9.0	9.6	13.4	218
2t 1.0	73	1.3	13.7	14.3	18.3	362
1t 1.5	56	1.5	9.7	10.3	14.0	247
3t 1.5	84	1.5	16.1	16.7	20.9	510
4t 1.5	91	1.5	17.8	18.4	22.8	620
7t 1.5	108	1.5	21.5	22.1	26.9	951
12t 1.5	139	1.5	28.8	29.4	34.7	1417

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

STEEL & ALUMINIUM WIRE ARMOUR

Super Flexible Power, Control & Instrumentation cables with Armour Protection.

- Low Friction Jacket
- Low Bend Radius
- Super Flexible
- Low Smoke Zero Halogen
- Flame Retardant
- High Operating Temperatures
- Conforms to AS/NZS5000.1

- Super Flexible - extra fine annealed copper, specially formulated cross-linked and elastomeric rubber compounds.
- Either LSZH (fully ROHS compliant, no PVC, no smoke, no nasty chemicals), or Best Practice PVC.
- High continuous operating temperature for hazardous environments or safety margin.
- Extremely low core bend radius saves significant time and effort during installation.

CA

X-HF-110/HFS-110-TP

Flexible LSZH Rubber
Aluminium Wire Armour SDI
0.6/1KV 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 600/1000 VOLTS

Typical Applications

Flexible Rubber Aluminium Wire Armour cable suitable for Mains and Sub-Mains, Power Distribution, Electric Motors, Mining, Transport and Direct Burial applications where mechanical protection is required. Designed for use in applications requiring 125°C operating temperature.

Standard Core Configuration

1C: ☐

Construction

Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110), Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen, 125°C max operating temperature, conforms to UL 1581

Bedding LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen.

Armour Aluminium wire armour

Separator Polypropylene tape

Jacket Low Friction LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash Resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	80	3.1	4.6	7.4	9.4	13.4	234	61	57
1c	10	86	4.1	5.6	8.4	10.4	14.4	293	86	80
1c	16	92	5.1	6.7	9.4	11.4	15.4	364	112	105
1c	25	108	6.4	8.4	11.1	14.0	18.1	530	149	139
1c	35	117	7.8	9.8	12.5	15.4	19.5	651	184	172
1c	50	127	9.2	11.5	14.1	17.0	21.1	834	232	217
1c	70	143	10.8	13.3	16.1	19.7	23.9	1113	292	273
1c	95	155	12.8	15.3	18.1	21.7	25.9	1391	352	329
1c	120	168	14.5	17.3	20.2	23.8	28.1	1668	417	390
1c	150	184	16.3	19.5	22.6	26.2	30.7	2056	482	450
1c	185	198	18.0	21.7	24.7	28.3	33.0	2431	552	516
1c	240	221	20.3	24.2	27.4	31.8	36.8	3114	663	620
1c	300	238	22.5	27.2	30.0	34.4	39.7	3803	764	714
1c	400	267	26.0	30.7	34.3	38.7	44.5	4813	915	855
1c	500	297	29.2	34.4	38.2	43.6	49.6	6078	1059	990
1c	630	326	32.8	38.4	42.4	47.8	54.4	7472	1235	1154

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177, 179, 185 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible LSZH Rubber
Steel Wire Armour Control
0.6/1KV 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 600/1000 VOLTS

CA

X-HF-110/HFS-110-TP

Typical Applications
Flexible Rubber Steel Wire Armour cable suitable for Control Wiring applications where mechanical protection is required. Designed for use in application requiring 125°C operating temperature.

Standard Core Configuration
1 2 3 etc. + 

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110) Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen and individually numbered

Bedding LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen.

Armour Steel wire armour

Separator Polypropylene tape

Jacket Low Friction LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash Resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
5c 1.5	111	1.5	11.6	14.5	18.6	612
6c 1.5	116	1.5	12.5	15.4	19.4	665
7c 1.5	116	1.5	12.5	15.4	19.4	682
8c 1.5	123	1.5	13.5	16.4	20.5	748
10c 1.5	143	1.5	15.3	19.7	23.8	1124
12c 1.5	143	1.5	15.3	19.7	23.8	1164
14c 1.5	146	1.5	15.9	20.3	24.4	1237
16c 1.5	146	1.5	15.9	20.3	24.4	1280
19c 1.5	150	1.5	16.6	21.0	25.0	1362
21c 1.5	150	1.5	16.6	21.0	25.0	1407
24c 1.5	156	1.5	17.5	21.9	26.0	1545
27c 1.5	162	1.5	18.4	22.8	26.9	1637
30c 1.5	168	1.5	19.4	23.8	28.1	1758
33c 1.5	180	1.5	21.1	25.5	30.0	1899
37c 1.5	184	1.5	21.7	26.1	30.6	2010
53c 1.5	188	1.5	22.5	26.9	31.3	2376
5c 2.5	121	2.1	13.2	16.1	20.2	729
6c 2.5	127	2.1	14.3	17.2	21.2	806
7c 2.5	127	2.1	14.3	17.2	21.2	833
10c 2.5	157	2.1	17.6	22.0	26.2	1368
12c 2.5	162	2.1	18.4	22.8	26.9	1462
14c 2.5	167	2.1	19.2	23.6	27.8	1559
16c 2.5	175	2.1	20.3	24.7	29.2	1697
19c 2.5	181	2.1	21.4	25.8	30.2	1825
21c 2.5	189	2.1	22.6	27.0	31.5	1954
24c 2.5	203	2.1	24.7	29.1	33.9	2195
27c 2.5	207	2.1	25.4	29.8	34.6	2316
30c 2.5	214	2.1	26.3	30.7	35.7	2458
33c 2.5	220	2.1	27.4	31.8	36.7	2587
37c 2.5	230	2.1	28.6	33.0	38.3	2802

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

CA

X-HF-110/HFS-110-TP

Flexible LSZH Rubber
Steel Wire Armour Multi-core
0.6/1KV 125°C

LOW SMOKE ZERO HALOGEN | HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +125°C | 600/1000 VOLTS

Typical Applications

Flexible Rubber Steel Wire Armour cable suitable for Mains and Sub-Mains, Power Distribution, Electric Motors, Mining, Transport and Direct Burial applications where mechanical protection is required. Designed for use in application requiring 125°C operating temperature.

Standard Core Configuration

2C+E:
3C+E:
4C+E:

Construction

Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® X-125 (X-HF-110) Cross-Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. 125°C max operating temperature conforms to UL1581.

Bedding LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross-linked, Thermoset, Elastomeric, Low Smoke Zero Halogen.

Armour Steel Wire Armour

Separator Polypropylene tape

Jacket Low Friction LSFLEX® T-10 (HFS-110-TP) Flame Retardant, Cross Linked, Thermoset, Elastomeric, Low Smoke Zero Halogen. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +125°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards

AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.4
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
IEC 60754-2
IEC 61034-1&2

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5 + 1.5E	102	1.5	8.5	12.6	17.0	491	30	28
2c 2.5 + 2.5E	110	2.1	9.8	13.9	18.3	579	41	38
2c 4 + 4E	115	2.5	10.6	14.8	19.2	660	54	50
2c 6 + 6E	123	3.1	11.9	16.1	20.5	787	67	63
2c 10 + 4E	131	4.1	13.2	17.3	21.8	866	94	88
2c 16 + 6E	153	5.1	15.3	21.0	25.5	1355	124	116
2c 25 + 6E	176	6.4	18.9	24.6	29.4	1774	165	154
2c 35 + 10E	194	7.8	21.6	27.3	32.4	2176	203	190
2c 50 + 16E	214	9.2	24.7	30.4	35.7	2712	255	238
2c 70 + 25E	238	10.8	28.6	34.0	39.7	3409	320	299
2c 95 + 25E	272	12.8	33.4	39.2	45.3	4321	382	357

*AS/NZS 3008.1 Table 12 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 181 and 189 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

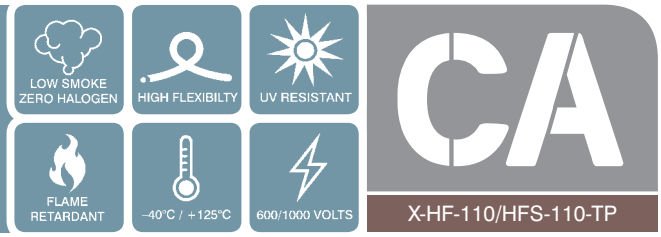
CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible LSZH Rubber

Steel Wire Armour Multi-core

0.6/1KV 125°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	107	1.5	9.2	13.4	17.8	532	26	24
3c 2.5 + 2.5E	115	2.1	10.6	14.7	19.2	627	34	32
3c 4 + 4E	121	2.5	11.6	15.8	20.2	732	45	42
3c 6 + 6E	130	3.1	13.1	17.2	21.7	866	58	54
3c 10 + 4E	140	4.1	14.6	18.8	23.3	1024	80	75
3c 16 + 6E	163	5.1	16.9	22.6	27.2	1603	106	99
3c 25 + 6E	183	6.4	20.0	25.7	30.5	2041	140	131
3c 35 + 10E	204	7.8	23.2	28.8	34.0	2561	173	162
3c 50 + 16E	229	9.2	26.7	32.6	38.2	3323	218	204
3c 70 + 25E	258	10.8	31.4	37.0	42.9	4226	273	255
3c 95 + 25E	291	12.8	35.3	42.1	48.5	5646	327	306
3c 120 + 35E	323	14.5	40.0	46.8	53.8	6816	385	360
3c 150 + 50E	357	16.3	45.0	52.2	59.5	8369	442	413
3c 185 + 70E	390	18.0	50.2	57.2	65.0	9932	503	470
3c 240 + 95E	431	20.3	56.1	63.5	71.8	12256	598	559
3c 300 + 120E	431	22.5	58.8	64.2	72.1	13630	683	638
4c 1.5 + 1.5E	112	1.5	10.0	14.2	18.6	584	26	24
4c 2.5 + 2.5E	121	2.1	11.5	15.7	20.1	702	34	32
4c 4 + 4E	128	2.5	12.7	16.9	21.4	814	45	42
4c 6 + 6E	138	3.1	14.3	18.4	23.0	979	58	54
4c 10 + 4E	158	4.1	16.2	21.8	26.4	1489	80	75
4c 16 + 6E	176	5.1	18.9	24.5	29.4	1883	106	99
4c 25 + 6E	199	6.4	22.4	28.1	33.2	2441	140	131
4c 35 + 10E	222	7.8	26.0	31.7	37.1	3062	173	162
4c 50 + 16E	252	9.2	30.5	36.1	42.0	4036	218	204
4c 70 + 25E	291	10.8	35.3	42.1	48.5	5571	273	255
4c 95 + 25E	323	12.8	40.1	46.9	53.9	6941	327	306
4c 120 + 35E	357	14.5	45.0	52.2	59.4	8397	385	360
4c 150 + 50E	397	16.3	51.0	58.3	66.2	10258	442	413
4c 185 + 70E	436	18.0	56.5	64.2	72.7	12325	503	470
4c 240 + 95E	431	20.3	59.4	64.8	72.9	13836	598	559

*AS/NZS 3008.1 Table 15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 183 and 191 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

XA

X-90

Flexible Rubber
Aluminium Wire Armour SDI
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications
Flexible Rubber Aluminium Wire Armour cable suitable for Mains and Sub-Mains, Power Distribution, Electric Motors, Mining, Transport and Direct Burial applications where mechanical protection is required.

Standard Core Configuration
1C: ▭

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90) Cross-Linked, Polyethylene

Bedding E-RUBBER® N-30 Thermoplastic, Elastomeric

Armour Aluminium wire armour

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

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NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	80	3.1	4.6	7.4	9.4	13.4	234	51	46
1c	10	86	4.1	5.6	8.4	10.4	14.4	293	70	64
1c	16	92	5.1	6.7	9.4	11.4	15.4	364	94	85
1c	25	108	6.4	8.4	11.1	14.0	18.1	530	125	114
1c	35	117	7.8	9.8	12.5	15.4	19.5	651	155	141
1c	50	127	9.2	11.5	14.1	17.0	21.1	834	196	178
1c	70	143	10.8	13.3	16.1	19.7	23.9	1113	248	225
1c	95	155	12.8	15.3	18.1	21.7	25.9	1391	298	271
1c	120	168	14.5	17.3	20.2	23.8	28.1	1668	354	322
1c	150	184	16.3	19.5	22.6	26.2	30.7	2056	409	372
1c	185	198	18.0	21.7	24.7	28.3	33.0	2431	470	427
1c	240	221	20.3	24.2	27.4	31.8	36.8	3114	565	514
1c	300	238	22.5	27.2	30.0	34.4	39.7	3803	650	591
1c	400	267	26.0	30.7	34.3	38.7	44.5	4813	780	709
1c	500	297	29.2	34.4	38.2	43.6	49.6	6078	903	821
1c	630	326	32.8	38.4	42.4	47.8	54.4	7472	1052	956

*AS/NZS 3008.1 Table 8 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 176, 178, 184 and 186 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Steel Wire Armour Control
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

XA
X-90

Typical Applications
Flexible Rubber Steel Wire Armour cable suitable for Control wiring applications where mechanical protection is required.

Standard Core Configuration
1 2 3 etc. +

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90) Cross-Linked, Polyethylene

Bedding E-RUBBER® N-30 Thermoplastic, Elastomeric

Armour Steel wire armour

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
5c 1.5	111	1.5	11.6	14.5	18.6	612
6c 1.5	116	1.5	12.5	15.4	19.4	665
7c 1.5	116	1.5	12.5	15.4	19.4	682
8c 1.5	123	1.5	13.5	16.4	20.5	748
10c 1.5	143	1.5	15.3	19.7	23.8	1124
12c 1.5	143	1.5	15.3	19.7	23.8	1164
14c 1.5	146	1.5	15.9	20.3	24.4	1237
16c 1.5	146	1.5	15.9	20.3	24.4	1280
19c 1.5	150	1.5	16.6	21.0	25.0	1362
21c 1.5	150	1.5	16.6	21.0	25.0	1407
24c 1.5	156	1.5	17.5	21.9	26.0	1545
27c 1.5	162	1.5	18.4	22.8	26.9	1637
30c 1.5	168	1.5	19.4	23.8	28.1	1758
33c 1.5	180	1.5	21.1	25.5	30.0	1899
37c 1.5	184	1.5	21.7	26.1	30.6	2010
53c 1.5	188	1.5	22.5	26.9	31.3	2376
5c 2.5	121	2.1	13.2	16.1	20.2	729
6c 2.5	127	2.1	14.3	17.2	21.2	806
7c 2.5	127	2.1	14.3	17.2	21.2	833
10c 2.5	157	2.1	17.6	22.0	26.2	1368
12c 2.5	162	2.1	18.4	22.8	26.9	1462
14c 2.5	167	2.1	19.2	23.6	27.8	1559
16c 2.5	175	2.1	20.3	24.7	29.2	1697
19c 2.5	181	2.1	21.4	25.8	30.2	1825
21c 2.5	189	2.1	22.6	27.0	31.5	1954
24c 2.5	203	2.1	24.7	29.1	33.9	2195
27c 2.5	207	2.1	25.4	29.8	34.6	2316
30c 2.5	214	2.1	26.3	30.7	35.7	2458
33c 2.5	220	2.1	27.4	31.8	36.7	2587
37c 2.5	230	2.1	28.6	33.0	38.3	2802

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

XA

X-90

Flexible Rubber
Steel Wire Armour Multi-core
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications
Flexible Rubber Steel Wire Armour cable suitable for Mains and Sub-Mains, Power Distribution, Electric Motors, Mining, Transport and Direct Burial applications where mechanical protection is required.

Standard Core Configuration
2C+E:
3C+E:
4C+E:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90) Cross-Linked, Polyethylene

Bedding E-RUBBER® N-30 Thermoplastic, Elastomeric

Armour Steel Wire Armour.

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1

IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

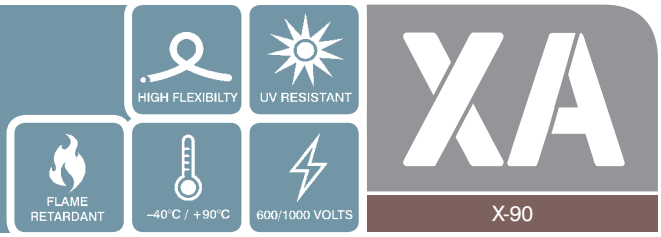
NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5 + 1.5E	102	1.5	8.5	12.6	17.0	491	25	23
2c 2.5 + 2.5E	110	2.1	9.8	13.9	18.3	579	33	30
2c 4 + 4E	115	2.5	10.6	14.8	19.2	660	44	40
2c 6 + 6E	123	3.1	11.9	16.1	20.5	787	56	51
2c 10 + 4E	131	4.1	13.2	17.3	21.8	866	79	72
2c 16 + 6E	153	5.1	15.3	21.0	25.5	1355	106	96
2c 25 + 6E	176	6.4	18.9	24.6	29.4	1774	141	128
2c 35 + 10E	194	7.8	21.6	27.3	32.4	2176	174	158
2c 50 + 16E	214	9.2	24.7	30.4	35.7	2712	219	199
2c 70 + 25E	238	10.8	28.6	34.0	39.7	3409	276	251
2c 95 + 25E	272	12.8	33.4	39.2	45.3	4321	330	300

*AS/NZS 3008.1 Table 11 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 180 and 188 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Steel Wire Armour Multi-core
0.6/1KV 90°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	107	1.5	9.2	13.4	17.8	532	21	19
3c 2.5 + 2.5E	115	2.1	10.6	14.7	19.2	627	29	26
3c 4 + 4E	121	2.5	11.6	15.8	20.2	732	37	34
3c 6 + 6E	130	3.1	13.1	17.2	21.7	866	47	43
3c 10 + 4E	140	4.1	14.6	18.8	23.3	1024	67	61
3c 16 + 6E	163	5.1	16.9	22.6	27.2	1603	89	81
3c 25 + 6E	183	6.4	20.0	25.7	30.5	2041	119	108
3c 35 + 10E	204	7.8	23.2	28.8	34.0	2561	149	135
3c 50 + 16E	229	9.2	26.7	32.6	38.2	3323	187	170
3c 70 + 25E	258	10.8	31.4	37.0	42.9	4226	235	214
3c 95 + 25E	291	12.8	35.3	42.1	48.5	5646	282	256
3c 120 + 35E	323	14.5	40.0	46.8	53.8	6816	333	303
3c 150 + 50E	357	16.3	45.0	52.2	59.5	8369	383	348
3c 185 + 70E	390	18.0	50.2	57.2	65.0	9932	436	396
3c 240 + 95E	431	20.3	56.1	63.5	71.8	12256	519	472
3c 300 + 120E	431	22.5	58.8	64.2	72.1	13603	593	539
4c 1.5 + 1.5E	112	1.5	10.0	14.2	18.6	584	21	19
4c 2.5 + 2.5E	121	2.1	11.5	15.7	20.1	702	29	26
4c 4 + 4E	128	2.5	12.7	16.9	21.4	814	37	34
4c 6 + 6E	138	3.1	14.3	18.4	23.0	979	47	43
4c 10 + 4E	158	4.1	16.2	21.8	26.4	1489	67	61
4c 16 + 6E	176	5.1	18.9	24.5	29.4	1883	89	81
4c 25 + 6E	199	6.4	22.4	28.1	33.2	2441	119	108
4c 35 + 10E	222	7.8	26.0	31.7	37.1	3062	149	135
4c 50 + 16E	252	9.2	30.5	36.1	42.0	4036	187	170
4c 70 + 25E	291	10.8	35.3	42.1	48.5	5571	235	214
4c 95 + 25E	323	12.8	40.1	46.9	53.9	6941	282	256
4c 120 + 35E	357	14.5	45.0	52.2	59.4	8397	333	303
4c 150 + 50E	397	16.3	51.0	58.3	66.2	10258	383	348
4c 185 + 70E	436	18.0	56.5	64.2	72.7	12325	436	396
4c 240 + 95E	431	20.3	59.4	64.8	72.9	13806	519	472

*AS/NZS 3008.1 Table 14 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 182 and 190 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

KA

X-HF-110

Flexible Rubber
Aluminium Wire Armour SDI
0.6/1KV 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

Typical Applications
Flexible Rubber Aluminium Wire Armour cable suitable for Mains and Sub-Mains, Power Distribution, Electric Motors, Mining, Transport and Direct Burial applications where mechanical protection is required.

Standard Core Configuration
1C: ▭

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Cross-Linked, Thermoset

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric

Armour Aluminium wire armour

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)		MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER INSULATION (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
1c	6	80	3.1	4.6	7.4	9.4	13.4	234	61	57
1c	10	86	4.1	5.6	8.4	10.4	14.4	293	86	80
1c	16	92	5.1	6.7	9.4	11.4	15.4	364	112	105
1c	25	108	6.4	8.4	11.1	14.0	18.1	530	149	139
1c	35	117	7.8	9.8	12.5	15.4	19.5	651	184	172
1c	50	127	9.2	11.5	14.1	17.0	21.1	834	232	217
1c	70	143	10.8	13.3	16.1	19.7	23.9	1113	292	273
1c	95	155	12.8	15.3	18.1	21.7	25.9	1391	352	329
1c	120	168	14.5	17.3	20.2	23.8	28.1	1668	417	390
1c	150	184	16.3	19.5	22.6	26.2	30.7	2056	482	450
1c	185	198	18.0	21.7	24.7	28.3	33.0	2431	552	516
1c	240	221	20.3	24.2	27.4	31.8	36.8	3114	663	620
1c	300	238	22.5	27.2	30.0	34.4	39.7	3803	764	714
1c	400	267	26.0	30.7	34.3	38.7	44.5	4813	915	855
1c	500	297	29.2	34.4	38.2	43.6	49.6	6078	1059	990
1c	630	326	32.8	38.4	42.4	47.8	54.4	7472	1235	1154

*AS/NZS 3008.1 Table 9 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 177, 179, 185 and 187 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Steel Wire Armour Control
0.6/1KV 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

KA

X-HF-110

Typical Applications
Flexible Rubber Steel Wire Armour cable suitable for Control wiring applications where mechanical protection is required.

Standard Core Configuration
1 2 3 etc. + 

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Cross-Linked, Thermoset

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric

Armour Steel wire armour

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008
AS/NZS 5000.1

IEC 60228
IEC 60332-1
IEC60332-3-22

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
5c 1.5	111	1.5	11.6	14.5	18.6	612
6c 1.5	116	1.5	12.5	15.4	19.4	665
7c 1.5	116	1.5	12.5	15.4	19.4	682
8c 1.5	123	1.5	13.5	16.4	20.5	748
10c 1.5	143	1.5	15.3	19.7	23.8	1124
12c 1.5	143	1.5	15.3	19.7	23.8	1164
14c 1.5	146	1.5	15.9	20.3	24.4	1237
16c 1.5	146	1.5	15.9	20.3	24.4	1280
19c 1.5	150	1.5	16.6	21.0	25.0	1362
21c 1.5	150	1.5	16.6	21.0	25.0	1407
24c 1.5	156	1.5	17.5	21.9	26.0	1545
27c 1.5	162	1.5	18.4	22.8	26.9	1637
30c 1.5	168	1.5	19.4	23.8	28.1	1758
33c 1.5	180	1.5	21.1	25.5	30.0	1899
37c 1.5	184	1.5	21.7	26.1	30.6	2010
53c 1.5	188	1.5	22.5	26.9	31.3	2376
5c 2.5	121	2.1	13.2	16.1	20.2	729
6c 2.5	127	2.1	14.3	17.2	21.2	806
7c 2.5	127	2.1	14.3	17.2	21.2	833
10c 2.5	157	2.1	17.6	22.0	26.2	1368
12c 2.5	162	2.1	18.4	22.8	26.9	1462
14c 2.5	167	2.1	19.2	23.6	27.8	1559
16c 2.5	175	2.1	20.3	24.7	29.2	1697
19c 2.5	181	2.1	21.4	25.8	30.2	1825
21c 2.5	189	2.1	22.6	27.0	31.5	1954
24c 2.5	203	2.1	24.7	29.1	33.9	2195
27c 2.5	207	2.1	25.4	29.8	34.6	2316
30c 2.5	214	2.1	26.3	30.7	35.7	2458
33c 2.5	220	2.1	27.4	31.8	36.7	2587
37c 2.5	230	2.1	28.6	33.0	38.3	2802

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

KA

X-HF-110

Flexible Rubber
Steel Wire Armour Multi-core
0.6/1KV 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

Typical Applications
Flexible Rubber Steel Wire Armour cable suitable for Mains and Sub-Mains, Power Distribution, Electric Motors, Mining, Transport and Direct Burial applications where mechanical protection is required.

Standard Core Configuration
2C+E:
3C+E:
4C+E:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Cross-Linked, Thermoset

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric

Armour Steel Wire Armour.

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +110°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
greenstar

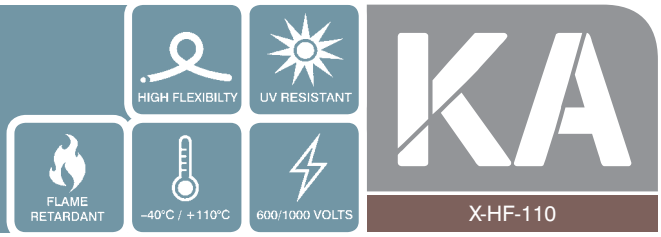
NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5 + 1.5E	102	1.5	8.5	12.6	17.0	491	30	28
2c 2.5 + 2.5E	110	2.1	9.8	13.9	18.3	579	41	38
2c 4 + 4E	115	2.5	10.6	14.8	19.2	660	54	50
2c 6 + 6E	123	3.1	11.9	16.1	20.5	787	67	63
2c 10 + 4E	131	4.1	13.2	17.3	21.8	866	94	88
2c 16 + 6E	153	5.1	15.3	21.0	25.5	1355	124	116
2c 25 + 6E	176	6.4	18.9	24.6	29.4	1774	165	154
2c 35 + 10E	194	7.8	21.6	27.3	32.4	2176	203	190
2c 50 + 16E	214	9.2	24.7	30.4	35.7	2712	255	238
2c 70 + 25E	238	10.8	28.6	34.0	39.7	3409	320	299
2c 95 + 25E	272	12.8	33.4	39.2	45.3	4321	382	357

*AS/NZS 3008.1 Table 12 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 181 and 189 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Steel Wire Armour Multi-core
0.6/1KV 110°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	107	1.5	9.2	13.4	17.8	532	21	19
3c 2.5 + 2.5E	115	2.1	10.6	14.7	19.2	627	29	26
3c 4 + 4E	121	2.5	11.6	15.8	20.2	732	37	34
3c 6 + 6E	130	3.1	13.1	17.2	21.7	866	47	43
3c 10 + 4E	140	4.1	14.6	18.8	23.3	1024	67	61
3c 16 + 6E	163	5.1	16.9	22.6	27.2	1603	89	81
3c 25 + 6E	183	6.4	20.0	25.7	30.5	2041	119	108
3c 35 + 10E	204	7.8	23.2	28.8	34.0	2561	149	135
3c 50 + 16E	229	9.2	26.7	32.6	38.2	3323	187	170
3c 70 + 25E	258	10.8	31.4	37.0	42.9	4226	235	214
3c 95 + 25E	291	12.8	35.3	42.1	48.5	5646	282	256
3c 120 + 35E	323	14.5	40.0	46.8	53.8	6816	333	303
3c 150 + 50E	357	16.3	45.0	52.2	59.5	8369	383	348
3c 185 + 70E	390	18.0	50.2	57.2	65.0	9932	436	396
3c 240 + 95E	431	20.3	56.1	63.5	71.8	12256	519	472
3c 300 + 120E	431	22.5	58.8	64.2	72.1	13603	683	638
4c 1.5 + 1.5E	112	1.5	10.0	14.2	18.6	584	21	19
4c 2.5 + 2.5E	121	2.1	11.5	15.7	20.1	702	29	26
4c 4 + 4E	128	2.5	12.7	16.9	21.4	814	37	34
4c 6 + 6E	138	3.1	14.3	18.4	23.0	979	47	43
4c 10 + 4E	158	4.1	16.2	21.8	26.4	1489	67	61
4c 16 + 6E	176	5.1	18.9	24.5	29.4	1883	89	81
4c 25 + 6E	199	6.4	22.4	28.1	33.2	2441	119	108
4c 35 + 10E	222	7.8	26.0	31.7	37.1	3062	149	135
4c 50 + 16E	252	9.2	30.5	36.1	42.0	4036	187	170
4c 70 + 25E	291	10.8	35.3	42.1	48.5	5571	235	214
4c 95 + 25E	323	12.8	40.1	46.9	53.9	6941	282	256
4c 120 + 35E	357	14.5	45.0	52.2	59.4	8397	333	303
4c 150 + 50E	397	16.3	51.0	58.3	66.2	10258	383	348
4c 185 + 70E	436	18.0	56.5	64.2	72.7	12325	436	396
4c 240 + 95E	431	20.3	59.4	64.8	72.9	13806	598	559

*AS/NZS 3008.1 Table 15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 183 and 191 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

DA

X-90

Flexible Rubber Steel Wire Armour
Collective Screened & Braided EMC
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications
Suitable for fixed wiring application where EMC and mechanical protection are required.

Standard Core Configuration
2C+E:
3C+E:
4C+E:

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90) Cross-Linked, Polyethylene

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Bedding E-RUBBER® N-30 Thermoplastic, Elastomeric

Armour Steel wire armour

Separator Polypropylene tape

Jacket E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

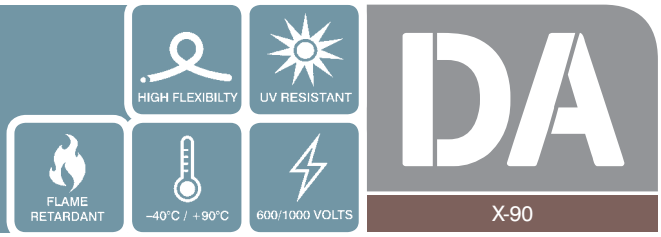
NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
2c 1.5 + 1.5E	110	1.5	7.5	11.6	14.7	18.4	699	25	23
2c 2.5 + 2.5E	118	2.1	8.8	12.9	16.0	19.7	817	33	30
2c 4 + 4E	124	2.5	9.7	13.7	16.9	20.6	912	44	40
2c 6 + 6E	141	3.1	11.0	15.0	19.7	23.5	1334	56	51
2c 10 + 4E	150	4.1	12.4	16.5	21.2	25.0	1549	79	72
2c 16 + 6E	163	5.1	14.5	18.5	23.3	27.1	1855	106	96
2c 25 + 6E	184	6.4	17.9	22.0	26.8	30.7	2330	141	128
2c 35 + 10E	202	7.8	20.8	24.8	29.7	33.7	2806	174	158
2c 50 + 16E	228	9.2	24.0	28.3	33.3	38.0	3560	219	199
2c 70 + 25E	254	10.8	27.7	32.2	37.2	42.3	4408	276	251
2c 95 + 25E	289	12.8	31.7	36.4	42.6	48.1	5922	330	300

*AS/NZS 3008.1 Table 11 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 180 and 188 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber Steel Wire Armour
Collective Screened & Braided EMC
0.6/1KV 90°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	114	1.5	8.3	12.3	15.5	19.1	744	21	19
3c 2.5 + 2.5E	124	2.1	9.7	13.8	16.9	20.6	861	29	26
3c 4 + 4E	130	2.5	10.7	14.7	17.9	21.6	969	37	34
3c 6 + 6E	147	3.1	12.1	16.2	20.9	24.6	1417	47	43
3c 10 + 4E	156	4.1	13.4	17.5	22.3	26.0	1614	67	61
3c 16 + 6E	170	5.1	15.6	19.7	24.5	28.4	2002	89	81
3c 25 + 6E	193	6.4	19.4	23.5	28.4	32.2	2537	119	108
3c 35 + 10E	217	7.8	22.5	26.6	31.5	36.1	3158	149	135
3c 50 + 16E	241	9.2	26.1	30.3	35.3	40.2	3977	187	170
3c 70 + 25E	271	10.8	30.0	34.7	39.8	45.2	5081	235	214
3c 95 + 25E	308	12.8	34.5	39.3	45.5	51.4	6742	282	256
3c 120 + 35E	338	14.5	38.7	43.9	50.2	56.4	80 15	333	303
3c 150 + 50E	373	16.3	43.5	49.0	55.4	62.1	9716	383	348
3c 185 + 70E	407	18.0	48.2	54.1	60.6	67.8	11539	436	396
3c 240 + 95E	455	20.3	53.7	60.0	67.9	75.9	15035	519	472
4c 1.5 + 1.5E	120	1.5	9.1	13.2	16.4	20.0	796	21	19
4c 2.5 + 2.5E	130	2.1	10.8	14.8	18.0	21.7	936	29	26
4c 4 + 4E	146	2.5	11.8	15.9	20.6	24.4	1370	37	34
4c 6 + 6E	156	3.1	13.5	17.5	22.3	26.0	1570	47	43
4c 10 + 4E	166	4.1	15.0	19.1	23.9	27.7	1835	67	61
4c 16 + 6E	183	5.1	17.5	21.6	26.4	30.5	2276	89	81
4c 25 + 6E	212	6.4	21.8	25.9	30.8	35.4	2966	119	108
4c 35 + 10E	236	7.8	25.3	29.6	34.6	39.4	3676	149	135
4c 50 + 16E	264	9.2	29.3	33.8	38.9	44.0	4671	187	170
4c 70 + 25E	305	10.8	33.8	38.7	44.9	50.8	6484	235	214
4c 95 + 25E	340	12.8	38.8	44.1	50.4	56.6	8002	282	256
4c 120 + 35E	373	14.5	43.6	49.1	55.4	62.1	9557	333	303
4c 150 + 50E	412	16.3	49.1	55.0	61.5	68.7	11703	383	348
4c 185 + 70E	460	18.0	54.4	60.0	68.6	76.6	14763	436	396

*AS/NZS 3008.1 Table 14 Unenclosed touching - 90°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 182 and 190 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

DA

X-90

Flexible Rubber Steel Wire Armour
Collective Screened & Braided EMC
0.6/1KV 90°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +90°C | 600/1000 VOLTS

Typical Applications
Suitable for fixed wiring application where EMC and mechanical protection are required.

Standard Core Configuration
1 | 2 | 3 etc. +

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® XL-20 (X-90) Cross-linked, Polyethylene and individually numbered.

Screen Aluminium laminate tape

Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Bedding E-RUBBER® N-30 Thermoplastic, Elastomeric

Armour Steel wire armour

Separator Polypropylene tape

Jacket E-RUBBER® N-30 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp
-40°C to +90°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22
greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BRAID (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
6c 1.5	127	1.5	10.0	14.1	17.0	21.1	976
7c 1.5	127	1.5	10.0	14.1	17.0	21.1	994
10c 1.5	152	1.5	12.8	16.9	21.3	25.4	1599
12c 1.5	156	1.5	13.4	17.5	21.9	26.0	1694
14c 1.5	161	1.5	14.1	18.2	22.6	26.8	1798
16c 1.5	166	1.5	15.0	19.1	23.5	27.7	1911
19c 1.5	172	1.5	15.9	20.0	24.4	28.6	2044
21c 1.5	176	1.5	16.9	21.0	25.4	29.4	2197
24c 1.5	188	1.5	18.7	22.7	27.1	31.4	2444
27c 1.5	192	1.5	19.3	23.3	27.7	32.0	2537
30c 1.5	197	1.5	20.0	24.1	28.5	32.8	2694
33c 1.5	202	1.5	20.9	25.0	29.4	33.7	2836
37c 1.5	223	1.5	22.2	25.8	32.3	37.2	3704
6c 2.5	145	2.1	11.8	15.9	20.3	24.2	1482
7c 2.5	145	2.1	11.8	15.9	20.3	24.2	1509
10c 2.5	167	2.1	15.2	19.2	23.6	27.9	1915
12c 2.5	172	2.1	15.9	20.0	24.4	28.6	2040
14c 2.5	177	2.1	16.8	20.8	25.2	29.5	2203
16c 2.5	184	2.1	17.8	21.9	26.3	30.6	2353
19c 2.5	190	2.1	18.9	23.0	27.4	31.6	2559
21c 2.5	197	2.1	20.1	24.2	28.6	32.9	2752
24c 2.5	214	2.1	22.3	26.3	30.7	35.7	3114
27c 2.5	218	2.1	23.0	27.0	31.4	36.4	3277
30c 2.5	224	2.1	23.8	27.9	32.3	37.3	4536
33c 2.5	233	2.1	24.9	29.2	33.6	38.8	3715
37c 2.5	239	2.1	26.0	30.2	34.6	39.9	3967

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber
Collective Screened & Braided VSD/VFD
0.6/1KV 110°C

HIGH FLEXIBILITY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 600/1000 VOLTS

X-HF-110

Typical Applications
Flexible flame retardant VSD cable with steel wire armour suitable for Variable Speed Drives, Variable Frequency Drives and Electric Motors where mechanical protection is required. Designed for use in application requiring 110°C operating temperature.

Standard Core Configuration

Construction
Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Cross-Linked, Thermoset

Separator Polypropylene tape

Overall Screen Aluminium Laminate Tape

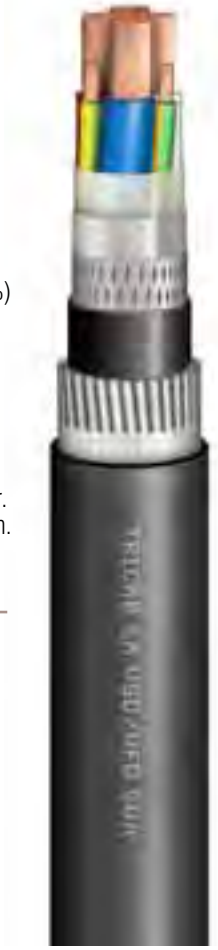
Braid Tinned Copper Wire braid (90%) or Galvanized Steel Wire braid (90%)

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric

Armour Steel wire armour

Separator Polypropylene tape

Jacket Low Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.



Operating Temp
-40°C to +110°C

Voltage Rating
600/1000 Volts

Core identification
To customers specification

Jacket Colour
To customers specification

Standards
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3008.1
AS/NZS 3808
AS/NZS 5000.1
IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)	CURRENT RATING Unenclosed Touching 30°C Ambient in Air (Amps)	CURRENT RATING Unenclosed Touching 40°C Ambient in Air (Amps)
3c 1.5 + 1.5E	119	1.5	12.9	15.8	19.9	762	26	24
3c 2.5 + 2.5E	128	2.1	14.4	17.3	21.3	891	34	32
3c 4 + 4E	143	2.5	15.3	19.7	23.9	1279	45	42
3c 6 + 6E	152	3.1	16.8	21.2	25.3	1483	58	54
3c 10 + 3c 1.5E	162	4.1	18.4	22.8	27.0	1570	80	75
3c 16 + 3c 2.5E	167	5.1	19.3	23.7	27.9	1804	106	99
3c 25 + 3c 4E	189	6.4	22.8	27.2	31.5	2344	140	131
3c 35 + 3c 6E	207	7.8	25.7	30.1	34.5	2844	173	162
3c 50 + 3c 10E	233	9.2	29.2	33.6	38.8	3693	218	204
3c 70 + 3c 10E	259	10.8	33.2	37.6	43.1	4508	273	255
3c 95 + 3c 16E	296	12.8	37.8	43.2	49.3	6170	327	306
3c 120 + 3c 16E	324	14.5	42.0	47.4	54.0	7211	385	360
3c 150 + 3c 25E	356	16.3	47.1	52.5	59.4	8824	442	413
3c 185 + 3c 25E	387	18.0	51.7	57.1	64.5	10203	503	470
3c 240 + 3c 35E	424	20.3	57.4	62.8	70.7	12488	598	559
3c 300 + 3c 50E	468	22.5	62.9	69.6	78.0	16152	683	638

*AS/NZS 3008.1 Table 15 Unenclosed touching - 110°C operating temperature. For Current ratings based on other installation methods, refer to the table on pages 183 and 191 of this catalogue. **There is +/-2% tolerance to the NOMINAL value due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc, and reserves the right to modify the specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

RA

X-HF-110

Flexible Rubber

Collective screened SWA Instrumentation

450/750V 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 450/750 VOLTS

Typical Applications

Flexible collective screened steel wire armour instrumentation cable suitable for Communications, Control and Alarm Circuit applications where mechanical protection is required.

Standard Core Configuration

PAIR:

TRIAD:

Construction

Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Cross-Linked, Thermoset

Screen Aluminium/Laminate tape

Drain wire Tinned annealed copper

Separator Polyester tape

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant.

Armour Steel wire armour

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp

-40°C to +110°C

Voltage Rating

450/750 Volts

Core identification

To customers specification

Jacket Colour

To customers specification

Standards

AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.3
IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 0.5	82	0.95	8.0	11.0	13.7	430
2p 0.5*	89	0.95	8.8	11.8	14.8	460
8p 0.5	149	0.95	15.9	21.1	24.8	1137
10p 0.5	158	0.95	17.3	22.4	26.3	1239
12p 0.5	169	0.95	18.7	24.0	28.2	1390
16p 0.5	180	0.95	20.6	25.8	30.1	1581
20p 0.5	189	0.95	21.5	27.0	31.5	1713
24p 0.5	197	0.95	22.8	28.4	32.9	1866
27p 0.5	207	0.95	24.1	29.7	34.5	1994
36p 0.5	227	0.95	27.1	32.9	37.9	2363

* Laid up in quad formation ** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

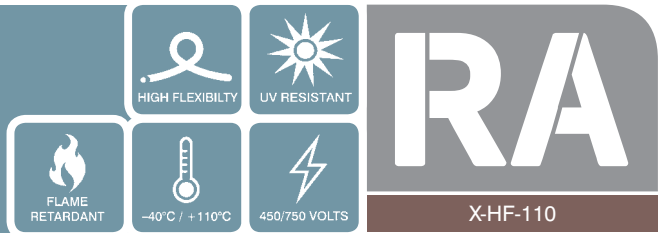
CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber

Collective screened SWA Instrumentation

450/750V 110°C



NUMBER OF PAIRS (p) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 0.75	87	1.2	8.6	11.5	14.5	477
2p 0.75*	92	1.2	9.4	12.4	15.4	500
4p 0.75	123	1.2	13.8	17.0	20.5	671
6p 0.75	145	1.2	15.5	20.5	24.2	1095
8p 0.75	159	1.2	17.6	22.5	26.5	1283
10p 0.75	170	1.2	18.9	24.1	28.3	1419
12p 0.75	180	1.2	20.7	25.7	30.0	1588
14p 0.75	189	1.2	21.7	27.0	31.5	1675
16p 0.75	195	1.2	22.6	27.9	32.4	1786
20p 0.75	202	1.2	23.8	29.0	33.7	1968
24p 0.75	213	1.2	25.3	30.7	35.5	2150
27p 0.75	222	1.2	26.7	32.0	37.0	2326
36p 0.75	246	1.2	30.1	35.7	41.0	2762
1p 1.0	88	1.3	9.5	11.7	14.7	489
2p 1.0*	95	1.3	10.7	12.9	15.8	526
4p 1.0	127	1.3	16.0	17.7	21.2	855
8p 1.0	163	1.3	20.4	23.1	27.1	1373
10p 1.0	174	1.3	22.0	24.7	29.0	1499
12p 1.0	187	1.3	24.0	26.6	31.1	1677
16p 1.0	199	1.3	26.5	28.7	33.2	1917
20p 1.0	209	1.3	27.8	30.0	34.8	2093
24p 1.0	220	1.3	29.7	31.6	36.6	2329
27p 1.0	229	1.3	31.1	33.1	38.2	2501
36p 1.0	254	1.3	35.1	36.8	42.3	2986
1p 1.5	92	1.5	9.9	12.3	15.3	520
2p 1.5*	100	1.5	11.2	13.6	16.6	566
4p 1.5	147	1.5	17.1	20.7	24.4	1104
8p 1.5	175	1.5	21.6	25.0	29.2	1492
10p 1.5	188	1.5	23.5	26.8	31.3	1687
12p 1.5	199	1.5	25.5	28.7	33.2	1866
16p 1.5	216	1.5	28.1	31.2	36.0	2174
20p 1.5	226	1.5	29.7	32.7	37.7	2417
24p 1.5	238	1.5	31.5	34.4	39.7	2659
27p 1.5	248	1.5	33.5	36.1	41.4	2882
36p 1.5	282	1.5	37.5	41.1	46.9	3871
1p 2.5	100	2.1	11.4	13.7	16.7	617
2p 2.5*	110	2.1	12.8	15.0	18.3	689
4p 2.5	165	2.1	20.0	23.4	27.4	1343
8p 2.5	199	2.1	25.4	28.6	33.2	1884
10p 2.5	213	2.1	27.7	30.8	35.5	2129
12p 2.5	229	2.1	30.3	33.2	38.2	2408
16p 2.5	249	2.1	33.4	36.2	41.5	2813
20p 2.5	260	2.1	35.0	37.7	43.3	3135
24p 2.5	281	2.1	37.4	41.1	46.9	3923
27p 2.5	294	2.1	39.5	43.0	49.1	4283
36p 2.5	329	2.1	44.6	47.8	54.4	5145

* Laid up in quad formation ** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

NUMBER OF TRIADS (t) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1t 0.75	86	1.2	8.9	11.4	14.3	457
3t 0.75	111	1.2	13.0	15.3	18.5	663
4t 0.75	120	1.2	14.4	16.6	20.0	688
7t 0.75	147	1.2	17.2	20.8	24.6	1209
1t 1.5	96	1.5	10.6	13.0	15.9	500
3t 1.5	140	1.5	15.9	19.6	23.3	1076
4t 1.5	149	1.5	17.5	21.1	24.9	1237
7t 1.5	173	1.5	21.2	24.6	28.8	1614

* Laid up in quad formation ** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

IA

X-HF-110

Flexible Rubber

Individual & Collective Screened SWA Instrumentation - 450/750V 110°C

HIGH FLEXIBILTY | UV RESISTANT | FLAME RETARDANT | -40°C / +110°C | 450/750 VOLTS

Typical Applications

Flexible collective screened steel wire armour instrumentation cable suitable for Communications, Control and Alarm Circuit applications where mechanical protection is required.

Standard Core Configuration

PAIR:

TRIAD:

Construction

Conductor Fine wire plain or tinned annealed copper to IEC 60228 and AS/NZS 1125.

Insulation LSFLEX® R-70 (X-HF-110) Cross-Linked, Thermoset

Screen Aluminium/Laminate tape, Individual & Collective

Drain wire Tinned annealed copper

Separator Polyester tape

Bedding E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant.

Armour Steel wire armour

Separator Polypropylene tape

Jacket Low-Friction E-RUBBER® S-20 Thermoplastic, Elastomeric, Flame Retardant. Splash resistant to oil, skydrol, petrol, acid and sea water. Resists ozone and UV. Excellent abrasion resistance. Submersible to 500m. Best Practice PVC. Anti-Termite/Rodent Jacket is Available.

Operating Temp

-40°C to +110°C

Voltage Rating

450/750 Volts

Core identification

To customers specification

Jacket Colour

To customers specification

Standards

AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.6
AS/NZS 3808
AS/NZS 5000.3
IEC 60228
IEC 60332-1
IEC 60332-3-22

greenstar

NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm²)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 0.5	83	0.95	7.9	10.8	13.9	426
2p 0.5	113	0.95	12.5	15.4	18.8	627
4p 0.5	129	0.95	14.8	17.7	21.4	719
8p 0.5	164	0.95	18.8	23.2	27.3	1334
10p 0.5	176	0.95	20.5	24.9	29.4	1479
12p 0.5	187	0.95	22.4	26.8	31.2	1633
16p 0.5	202	0.95	24.5	28.9	33.7	1865
20p 0.5	211	0.95	25.8	30.2	35.2	2057
24p 0.5	222	0.95	27.7	32.1	37.0	2259
27p 0.5	232	0.95	29.0	33.4	38.7	2435
36p 0.5	257	0.95	32.9	37.3	42.8	2904

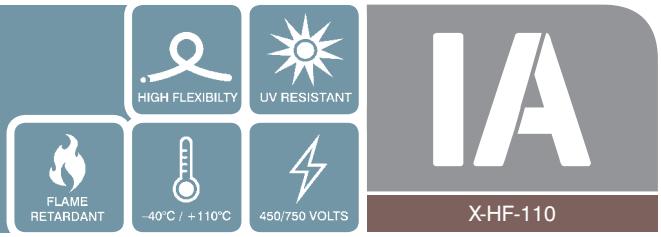
.** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

Flexible Rubber

Individual & Collective Screened SWA Instrumentation - 450/750V 110°C



NUMBER OF CONDUCTORS (c) X CROSS SECTION AREA (mm^2)	MINIMUM BENDING RADIUS (mm)	NOMINAL CONDUCTOR DIAMETER (mm)	NOMINAL OD OVER BEDDING (mm)	NOMINAL OD OVER ARMOUR (mm)	NOMINAL OVERALL DIAMETER (mm)	APPROX WEIGHT (kg/km)
1p 0.75	88	1.2	8.6	11.5	14.7	472
2p 0.75	119	1.2	13.3	16.2	19.9	694
3p 0.75	127	1.2	14.6	17.5	21.2	783
4p 0.75	146	1.2	15.9	20.3	24.3	1075
5p 0.75	155	1.2	17.2	21.6	25.8	1194
8p 0.75	176	1.2	20.4	24.8	29.3	1483
10p 0.75	187	1.2	22.3	26.7	31.1	1649
12p 0.75	199	1.2	24.1	28.5	33.2	1842
14p 0.75	208	1.2	25.5	29.9	34.7	1976
16p 0.75	216	1.2	26.6	31.0	36.0	2108
20p 0.75	225	1.2	28.1	32.5	37.4	2329
24p 0.75	237	1.2	29.8	34.2	39.5	2561
27p 0.75	248	1.2	31.5	35.9	41.4	2777
36p 0.75	282	1.2	35.7	41.1	46.9	3718
1p 1.0	89	1.3	8.8	11.7	14.9	497
2p 1.0	121	1.3	13.7	16.6	20.2	733
4p 1.0	148	1.3	16.3	20.7	24.7	1155
8p 1.0	179	1.3	21.0	25.4	29.8	1596
10p 1.0	192	1.3	22.9	27.3	32.0	1806
12p 1.0	204	1.3	25.0	29.4	34.1	1997
16p 1.0	222	1.3	27.6	32.0	37.0	2329
20p 1.0	231	1.3	28.9	33.3	38.6	2589
24p 1.0	244	1.3	30.9	35.3	40.6	2859
27p 1.0	254	1.3	32.4	36.8	42.3	3090
36p 1.0	289	1.3	36.8	42.2	48.2	4182
1p 1.5	92	1.5	9.2	12.1	15.3	533
2p 1.5	127	1.5	14.5	17.4	21.1	799
3p 1.5	144	1.5	15.7	20.1	24.1	1223
4p 1.5	154	1.5	17.1	21.5	25.6	1250
5p 1.5	162	1.5	18.3	22.7	26.9	1371
8p 1.5	187	1.5	22.3	26.7	31.2	1773
10p 1.5	200	1.5	24.1	28.5	33.3	1997
12p 1.5	214	1.5	26.3	30.7	35.7	2241
16p 1.5	233	1.5	29.1	33.5	38.8	2626
20p 1.5	242	1.5	30.7	35.1	40.4	2906
24p 1.5	256	1.5	32.8	37.2	42.7	3284
27p 1.5	267	1.5	34.5	38.9	44.6	3555
36p 1.5	305	1.5	39.1	44.5	50.8	4767
1p 2.5	100	2.1	10.4	13.3	16.7	627
2p 2.5	151	2.1	16.8	21.2	25.1	1301
4p 2.5	173	2.1	20.1	24.5	28.9	1545
8p 2.5	212	2.1	25.9	30.3	35.3	2197
10p 2.5	226	2.1	28.3	32.7	37.7	2504
12p 2.5	244	2.1	30.9	35.3	40.6	2821
16p 2.5	264	2.1	34.1	38.5	44.1	3358
20p 2.5	283	2.1	36.0	41.4	47.1	4189
24p 2.5	300	2.1	38.5	43.9	50.0	4697
27p 2.5	313	2.1	40.4	45.8	52.1	5084
36p 2.5	348	2.1	45.8	51.2	58.0	6185
1t 0.75	89	1.2	9.0	11.9	14.9	163
3t 0.75	127	1.2	14.9	17.8	21.2	279
4t 0.75	146	1.2	16.2	20.6	24.4	355
7t 0.75	171	1.2	19.8	24.2	28.5	541
1t 1.5	93	1.5	9.7	12.6	15.5	195
3t 1.5	145	1.5	16.1	20.5	24.2	383
4t 1.5	157	1.5	17.8	22.2	26.2	476
7t 1.5	181	1.5	21.5	25.9	30.2	724
12t 1.5	260	1.5	33.4	37.8	43.3	1267

** There is a +/-2% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

CONDUCTOR STRANDING - Approx. number of wires

SIZE mm^2	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
TriCab	144	224	350	490	707	980	1344	1672	2090	2584	3344	4144	5488	6944	8736
CLASS 5	80	128	200	280	400	356	485	614	765	944	1255	1530	2035	1768	3200
CLASS 6	320	512	800	1120	705	990	1340	1690	2123	1470	1905	2385	3200	4010	5020

CERTIFICATE OF REGISTRATION

This is to certify that:

TriCab (Australia) Pty Ltd

ABN 40 006 373 824

33 Prohasky Street Port Melbourne VIC 3207 AUSTRALIA

operates a

QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

ISO 9001:2008

for the following scope

The design, manufacture, warehousing, distribution and sale of electric cables and cable assemblies.

Certificate No: QEC4759

Issued: 11 June 2014
Expires: 30 January 2016

Originally Certified: 26 September 1994
Current Certification: 20 December 2012

Samer Chaouk
Head of Policy, Risk and Certification

Paul Butcher
Global Head – Assurance Services

Certified System ISO 9001

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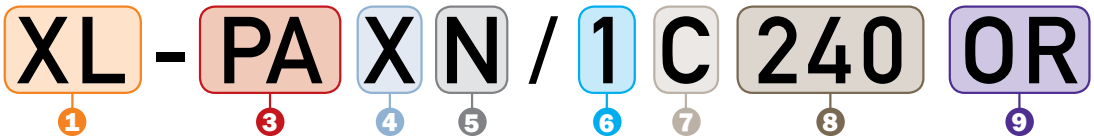
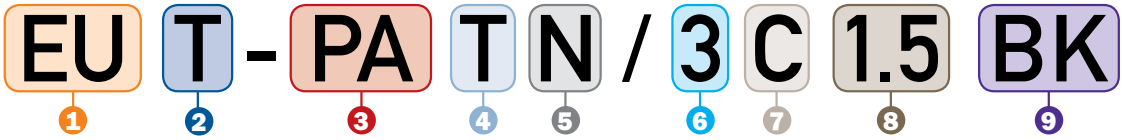
TECHNICAL INFORMATION

Product Coding

INDUSTRIAL CABLE - PRODUCT CODES



INDUSTRIAL CABLE WITH SPECIAL JACKET AS AN OPTION - PRODUCT CODES



1. PRODUCT SERIES

eg: **XL** series, **EU** series

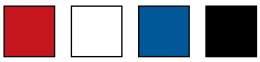
2. JACKET TYPE

A = SHF-1
C = NEK606 SHF-2
M = NEK606 MUD
T = Anti Termite/Anti Rodent

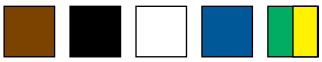
3. CORE COLOUR CONFIGURATION

eg: **PA** = AS/NZS Fixed Wiring with Earth

eg: **PB** = AS/NZS Fixed Wiring without Earth



eg: **PD** = AS/NZS Flexible



4. BRAID/ARMOUR/SCREEN

A = Aluminium Braid
C = GSWB + Alum/Lam tape + drain wire
E = TCWB + Alum/Lam tape + drain wire
G = GSWB
J = AWA
K = PCWB + drain wire
L = TCWB + drain wire
M = PCWB + GSWB (with bedding between)
N = Copper Screen (MV)
P = PCWB
R = Alum/Lam Tape + drain wire
S = SWA
T = TCWB
X = Not Applicable

5. CONDUCTOR

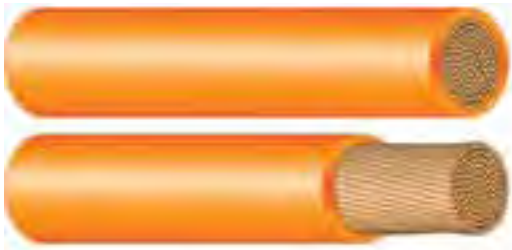
D = Tinned Annealed Copper Wire
N = Plain Annealed Copper Wire

6. NUMBER OF CONDUCTORS/PAIRS/TRIADS

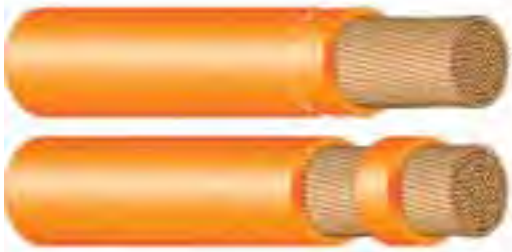
7. CORE TYPE

C = Power/Control
P = Pair
Q = Quad
T = Triad

Lugging Recommendation



1 Cut at required length and remove.



2 Cut section and slide towards the end of the conductor* (allow 5mm clearance)

3 Place standard lug at the end of conductor.

4 Gently push both lug and section until they meet the jacket. Cut and remove section.

5 Compress lug using hexagonal die and hydraulic crimper.

*Stripping at 25mm maximum lengths is recommended. For longer lengths cutting and stripping in 25mm sections is advised.

Installation Recommendation

CORRECTION FACTORS FOR CABLE CURRENT RATING

Ambient Temperature

AUSTRALIA: 40°C AIR, 25°C SOIL

Maximum Conductor Temperature	Ambient Air Temperature						
°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C
110	1.10	1.07	1.04	1.00	0.96	0.93	0.89
90	1.15	1.10	1.05	1.00	0.94	0.88	0.81

Maximum Conductor Temperature	Ambient Soil Temperature						
°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
110	1.08	1.06	1.03	1.00	0.97	0.94	0.91
90	1.11	1.07	1.03	1.00	0.97	0.93	0.89

NEW ZEALAND: 30°C AIR, 15°C SOIL

Maximum Conductor Temperature	Ambient Air Temperature						
°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
110	1.08	1.06	1.03	1.00	0.97	0.93	0.90
90	1.15	1.09	1.05	1.00	0.95	0.91	0.85

Maximum Conductor Temperature	Ambient Soil Temperature						
°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
110	1.02	1.00	0.97	0.95	0.92	0.89	0.86
90	1.04	1.00	0.96	0.93	0.91	0.87	0.83

INSTALLATION

Cable runs should be fixed in straight lines as far as practicable. The minimum bending radius for cable should be selected in accordance with the table below.

Cable Construction	Cable OD	Minimum bending radius (times cable OD)
Unbraided	all sizes	3X
Unbraided, fire resistant	all sizes	8X
Braided	all sizes	4X
Braided, fire resistant	all sizes	10X
Nylon protected	all sizes	8X
Steel wire armoured	all sizes	6X

The installation of cables across expansion joints in any structure should be avoided. Where this is not feasible, a loop of cable sufficient to accommodate the expansion of the joint should be provided. The internal radius of the loop is to be at least 12 times the overall diameter of the cable.

Cables should be installed away from heat sources as far as practicable. If this cannot be avoided and there is possibility of damage to the cable, then suitable shields, insulation or other protective measures should be installed.

Cables are not to be coated or painted with materials which may adversely affect their jacket or fire performance.

Cables should be installed away from sources of mechanical damage, as far as is practicable. If this cannot be avoided the cables should be protected with suitable metallic casing.

VOLTAGE DROP

When selecting cable size, consideration must be given to voltage drop. Refer to formula and table below:

$$Vd = \frac{L \times I \text{ mV/Am}}{1000}$$

Where: Vd = voltage drop in volts
L = route length of cable in metres
I = current to be carried in amps
mV/Am = millivolts per ampere metre value

(the drop in voltage shall not exceed 5% of supply voltage)

CONDUCTOR SIZE - SHORT CIRCUIT RATING

The short circuit current ratings in this catalogue are based on a one second duration. To calculate the maximum permissible short circuit ratings, the following formula should be applied.

$\frac{C \times 143}{\sqrt{t}}$ 90°C $\frac{C \times 132}{\sqrt{t}}$ 110°C

C = cross section area of conductor in mm²
t = short circuit time in seconds

Cross Sectional Area (mm²)	Short Circuit Current (Amps for 1 second		Three-Phase Voltage Drop at 50Hz (mV/A.m)*			
			Single Core Trefoil		Multicore	
	90°C	110°C	90°C	110°C	90°C	110°C
0.5	72	66	86.1	91.4	86.1	91.4
0.75	107	99	57.4	61.0	57.4	61.0
1	143	132	43.1	45.7	43.1	45.7
1.5	215	198	29.4	31.2	29.4	31.2
2.5	358	330	17.6	18.7	17.6	18.7
4	572	528	10.9	11.6	10.9	11.6
6	858	792	7.29	7.74	7.29	7.74
10	1430	1320	4.22	4.48	4.22	4.48
16	2288	2112	2.68	2.84	2.68	2.84
25	3575	3300	1.73	1.84	1.73	1.84
35	5005	4620	1.24	1.31	1.23	1.31
50	7150	6600	0.869	0.921	0.866	0.917
70	10010	9240	0.622	0.658	0.618	0.654
95	13585	12540	0.483	0.509	0.477	0.504
120	17160	15840	0.388	0.408	0.383	0.403
150	21450	19800	0.325	0.340	0.318	0.334
185	26455	24420	0.280	0.293	0.273	0.286
240	34320	31680	0.233	0.242	0.225	0.234
300	42900	39600	0.207	0.213	0.198	0.205
400	57200	52800	0.183	0.187	0.174	0.178
500	75100	66000	0.169	0.172	0.160	0.163
630	90090	83160	0.157	0.159	-	-

** AS/NZS3008.1.1:2009, Table 46 and Table 48. To determine the single-phase Voltage drop, multiply the three-phase value by 1.155. All information above is intended as a guide only.*

MAXIMUM INSTALLATION TENSION

To calculate the maximum allowable tension of cables during installation the following formula should be applied:

50 x C x Nc

C = cross section area of conductor in mm²

Nc = total number of cores

Maximum tension must not exceed 20,000N (kg = N/9.81)

Installation Recommendation - Fire Resistant Cables

The following installation recommendations are minimum requirements only, and local statutory, building code, and guidelines for the installation of associated products should also be taken into account:

1. INSTALLED ON CABLE TRAY OR LADDER:

Cables should be secured with metal fixings such as stainless steel cable ties, strapping, or cable clamps, with the following minimum fixing distances:

Horizontal:

Cables should be secured with cable ties every 350mm and with stainless steel cable ties every 1000mm

Vertical, Inclined or Unsupported:

Cables should be secured with cable ties every 300mm and with stainless steel cable ties every 600mm

2. INSTALLED BY DIRECT FIXING TO WALLS, CEILINGS AND IN CONDUIT:

Horizontal:

Cables should be secured with cable ties every 350mm and with stainless steel cable ties every 1000mm

Vertical, Inclined or Unsupported:

- for cables or cable bunches with an overall diameter ≤ 25mm fix every 600mm with metal saddles or clamps.
- for cables or cable bunches with an overall diameter > 25mm fix every 300mm with metal saddles or clamps.

3. INSTALLED USING UNSUPPORTED SPANS

Unsupported spans over 600mm are not recommended for cable or cable bunches with overall diameters ≤ 25mm, and spans over 300mm are not recommended for cable or cable bunches with overall diameters >25mm.

Note: That steel expanding bolts or similar systems should be used to fix trays and ladders to the fire rated elements of the building structure. Refer to the manufacturer's recommendation for fire conditions for the loading of trays and fixing.

4. INSTALLED ON CATENARY WIRE

Cables must be secured to catenary wires using metal fixings such as stainless steel cable ties or strapping with the following recommended fixing distances:

- for cables or cable bunches with an overall diameter ≤ 25mm fix every 600mm
- for cables or cable bunches with an overall diameter > 25mm fix every 300mm

Catenary wires should be secured to fire rated elements of the building structure and should only be loaded to 50% of the manufacturers recommended maximum.

INSTALLATION MUST ALSO COMPLY WITH AS/NZS 3000:2007 WIRING RULES:

"Wiring systems shall be installed in accordance with the generally accepted principles of safe and sound practice, using methods that will protect the electrical installation against mechanical or electrical failure under ordinary use, wear and tear, and any abnormal conditions that may reasonably be anticipated".

and

"Wiring systems shall be supported by suitable means, in accordance with Clause 3.3.2.8. Wiring systems shall be fixed in position, in accordance with this Standard, by suitable clips, saddles or clamps or by means that will not damage the wiring system and that will not be affected by the wiring system material or any external influences. For wiring systems installed in building elements, the positioning and size of openings and checks shall not reduce the structural strength of those building elements below the levels required by National Building Codes."

Conductor Data

CONDUCTOR - CONSTRUCTION

TriCab uses very fine 0.3mm copper wires to ensure maximum flexibility and ease of use. The following table from IEC 60228 provides a comparative analysis.

size (mm²)	TriCab	class 2	class 5	class 6
0.5	7 X 0.30	7 X 0.30	16 X 0.20	28 X 0.15
0.75	11 X 0.30	7 X 0.37	24 X 0.20	42 X 0.15
1	14 X 0.30	7 X 0.43	32 X 0.20	56 X 0.15
1.5	21 X 0.30	7 X 0.52	30 X 0.25	84 X 0.15
2.5	35 X 0.30	19 X 0.41	50 X 0.25	140 X 0.15
4	56 X 0.30	19 X 0.52	56 X 0.30	224 X 0.15
6	84 X 0.30	19 X 0.64	84 X 0.30	192 X 0.20
10	144 X 0.30	49 X 0.51	80 X 0.40	320 X 0.20
16	224 X 0.30	49 X 0.65	128 X 0.40	512 X 0.20
25	350 X 0.30	84 X 0.62	200 X 0.40	800 X 0.20
35	490 X 0.30	133 X 0.58	280 X 0.40	1120 X 0.20
50	707 X 0.30	133 X 0.69	400 X 0.40	705 X 0.30
70	980 X 0.30	189 X 0.69	356 X 0.50	999 X 0.30
95	1344 X 0.30	259 X 0.69	485 X 0.50	1340 X 0.30
120	1672 X 0.30	336 X 0.69	614 X 0.50	1699 X 0.30
150	2090 X 0.30	400 X 0.69	765 X 0.50	2123 X 0.30
185	2584 X 0.30	494 X 0.69	994 X 0.50	1470 X 0.40
240	3344 X 0.30	627 X 0.70	1125 X 0.50	1905 X 0.40
300	4144 X 0.30	61 X 2.50	1530 X 0.50	2385 X 0.40
400	5488 X 0.30	61 X 2.89	2035 X 0.50	3200 X 0.40
500	6944 X 0.30	61 X 3.20	1768 X 0.50	4010 X 0.40
630	8736 X 0.30	59 X 3.70	3200 X 0.50	5020 X 0.40

CONDUCTOR - DC RESISTANCE

To calculate the DC Resistance of copper conductors for a given temperature (°C), the resistance at 20°C, as detailed must be multiplied by the appropriate correction factor below.

Normal Cross-Sectional Area (mm²)	Maximum resistance of conductor at 20°C	
	Plain Copper Ohm/Km	Tinned Copper Ohm/Km
0.5	39.0	40.1
0.75	26.0	26.7
1	19.5	20.0
1.5	13.3	13.7
2.5	7.98	8.21
4	4.95	5.09
6	3.30	3.39
10	1.91	1.95
16	1.21	1.24
25	0.78	0.795
35	0.554	0.565
50	0.386	0.393
70	0.272	0.277
95	0.206	0.210
120	0.161	0.164
150	0.129	0.132
185	0.106	0.108
240	0.0801	0.0817
300	0.0641	0.0654
400	0.0486	0.0495
500	0.0384	0.0391
630	0.0287	0.0292

AMBIENT Temperature (°C)	Correction Factor
20	1.000
25	1.020
30	1.039
35	1.059
40	1.079
45	1.098
50	1.118
55	1.138
60	1.157
65	1.177
70	1.196
75	1.216
80	1.236
85	1.255

*All information above is intended as a guide only.

CONVERSION TABLE - CROSS-SECTIONAL AREA AWG/MCM TO mm²

AWG	mm²
20	0.519
18	0.823
16	1.31
14	2.08
12	3.31
10	5.26
8	8.37
6	13.30
4	21.15
2	33.62
1	42.41
1/0	53.49
2/0	67.43
3/0	85.01
4/0	107.2
MCM	**mm²**
250	126.7
300	152.0
350	177.3
400	202.7
450	228.0
500	253.4
550	278.7
600	304.0
650	329.4
700	354.7
750	380.0
800	405.4
850	430.7
900	456.0
950	481.4
1000	506.7

MINIMUM EARTHING CONDUCTOR SIZE

Nominal Cross Sectional Area of Active Conductor	Nominal Cross Sectional Area of Earthing Conductor
mm²	mm²
0.75	0.75
1	1
1.5	1.5
2.5	2.5
4	2.5
6	2.5
10	4
16	6
25	6
35	10
50	16
70	25
95	25
120	35
150	50
185	70
240	95
300	120
400	≥ 120
500	≥ 120
630	≥

*Refer to Section 5 of AS/NZS3000:2007 for other information.

Low Smoke Zero Halogen (LSZH), What does it mean?

LSZH

LSZH simply translates to Low Smoke Zero Halogen and refers to the behaviour of chemical compounds when combusted - specifically the quantity of smoke generated and the toxicity of the emissions.

HALOGENS - WHAT ARE THEY?

Halogens are a group of five elements comprising; Fluorine, Chlorine, Bromine, Iodine and Astatine.

Fluorine | Chlorine | Bromine | Iodine | Astatine

HALOGENS - AND THE EFFECT OF COMBUSTION

In their basic form, Halogens are very toxic, strong oxidizers and very chemically reactive. In the event of combustion, LSZH and non LSZH cables behave in very different ways, as indicated below.

WHAT'S THE DIFFERENCE BETWEEN LSZH AND NON LSZH CABLES?

LSZH cables have a zero Halogen content, emit no toxic fumes, generate very little smoke and produce no corrosive or caustic acids. LSZH cables are therefore ideally suited for all applications where personnel safety and protection of valuable equipment are of paramount importance.

Non LSZH cables, or Halogenated Cables, are typically manufactured from thermoplastic compounds, such as PVC. On combustion, these compounds generate highly toxic fumes that cause severe irritation to the eyes, nose, mouth, throat and lungs. Increased concentrations are considered fatal to humans.

They also generate large volumes of dense black smoke that blocks visibility and severely disrupts evacuation procedures. The smoke and fumes can also lead to suffocation from smoke inhalation. A one metre length of burning cable that contains 0.85Kg of PVC will completely obscure a room of 1000m^3 with black toxic smoke in less than five minutes.

When combusted, Halogens combine with moisture to form Hydrochloric Acid. This extremely corrosive acid is potentially deadly to humans and always causes extensive property damage. Acids of this nature aggressively attack electrical switchboards, motors, fixtures, furnishings, floor coverings, paint surfaces etc. In many cases the effects of acid corrosion after a fire are much more severe than the actual fire damage itself.

Non LSZH Cables | **TriCab LSZH Cables**

TRICAB LSFLEX® LSZH CABLES

- ✓ are halogen free
- ✓ do not form corrosive acids
- ✓ emit low smoke
- ✓ have an extremely low fuel element

Fire Testing and WS Rating

AS/NZS 3013 - CLASSIFICATION OF THE FIRE AND MECHANICAL PERFORMANCE OF WIRING SYSTEM ELEMENTS

This test is conducted in three parts:

FIRE TEST METHOD

Cable specimens are placed in a furnace which is programmed to follow a standard time-temperature curve, in order to determine the ability of the cable to maintain circuit integrity under fire conditions. The cable is deemed to have passed when the specimen has been exposed to the test for the appropriate minimum time requested by the submitter without a failure.

WATER TEST METHOD

After the cable specimen has passed the fire test, it is removed from the furnace and exposed to a water spray for 3 minutes. The cable is deemed to have achieved the desired degree of protection when it has been exposed to the fire test for the appropriate time and has sustained the effects of the water spray.

MECHANICAL TEST METHOD

Impact Test: The cable specimen is conditioned, placed on the test apparatus anvil, and connected to the circuit integrity monitoring system. The impactor which is set at the prescribed drop height, is dropped 3 times onto the specimen. The cable is deemed to have passed when it has been exposed to the specified level of impact energy without failure.

Cutting Test: A wedge shaped indentor is forced against the cable specimen and loaded until it cuts through the insulation in order to determine the ability of the cable to withstand cutting action. The cable is deemed to have passed when it has been exposed to the specified level of cutting force without failure.

IEC 60332-3, AS/NZS 1660.5.1 FLAME RETARDANT TEST

This test is conducted by placing cables together on a vertical ladder tray and then exposing them to the flames of a ribbon burner for the appropriate time (detailed below).

After removal of the flame, the cables are wiped clean and the charring should not have exceeded 2.5 meters.

Category A: 7 litres of combustible material exposed to flame for 40 minutes

Category B: 3.5 litres of combustible material exposed to flame for 40 minutes

Category C: 1.5 litres of combustible material exposed to flame for 20 minutes

IEC 60331, AS/NZS 1660.5.5 - FIRE TEST

This test is conducted by mounting a 1200mm length of cable over a gas burner and energizing it to its rated voltage. Flames are applied for 90 minutes at a temperature of at least 750°C. After 90 minutes the gas is turned off. After a further 15 minutes the power is disconnected. To pass the requirements of this test, the cable must remain operational both during the 90 minute exposure and the 15 minute cooling period.

IEC 60754-1&2, AS/NZS 1660.5.3 ACID GAS EMISSION TEST

This test determines the amount of acid gas emitted by burning cables. The criteria of this test states that the weighted pH value should not be less than 4.3 when related to 1 litre of water. The weighted value of conductivity should not exceed 10µs/mm.

IEC 61034-1&2, AS/NZS 1660.5.2 SMOKE DENSITY TEST

This test measures the smoke emission from cables during fire. This test is carried out in a 3m cubed enclosure where a cable sample is subjected to fire. The smoke emission and density are measured by alight beam emitted across the inside of the enclosure to a photocell, measuring the amount of luminous transmission received.

WS RATING

All our fire resistant cables are WS rated to AS/NZS 3013. A rating that defines the performance of a Wiring System.

The rating consists of the designation "**WS**" (Wiring System), followed by two numbers and a letter.

WS 5 2 W

First Numeral indicates how long the system maintained circuit integrity under fire conditions.

1	15 minutes
2	30 minutes
3	60 minutes
4	90 minutes
5	**120 minutes**

Second Numeral indicates the level of protection to the system during impact and cutting tests.

	Impact Test (J)	Cutting Test (kN)	Level of Protection
1	2.5	0.3	Light
2	**15**	**1.0**	**Moderate**
3	50	5.0	Heavy
4	500	5.0	Very Heavy
5	5000	5.0	Extremely Heavy

Supplementary Letter "**W**" means that the cable has passed the fire test and subsequent water spray test.

Standards referenced within this catalogue

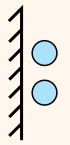
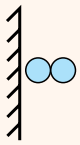
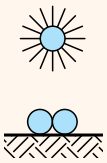
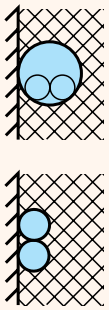
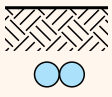
STANDARDS	DESCRIPTION
AS/NZS 1125	Copper construction
AS/NZS 1660.5.1	Fire tests-bunched cables
AS/NZS 1660.5.2	Fire tests-smoke density
AS/NZS 1660.5.4	Determination of degree of acidity of gases evolve during the combustion of materials taken from electric cables by measuring the pH and conductivity
AS/NZS 1660.5.6	Fire tests-combustion propagation
AS/NZS 1995	Welding cables
AS/NZS 3013	Electric installation-classification of fire and mechanical performance
AS/NZS 3191	Electric flexible cords
AS/NZS 4961	Electric Cables-Polymeric insulated. For distribution and service applications
AS/NZS 5000.1	Electric Cables-Polymeric insulated Part1: For working voltages up to and including 0.6/1(1.2)kV
AS/NZS 5000.2	Electric Cables-Polymeric Insulated Part2: For working voltages up to and including 450/750V
AS/NZS 5000.3	Electric Cables-Polymeric Insulated Part3: Multi-core control cables
AS/NZS 5033	Installation of Photo voltaic (PV) Arrays
BS 6387	Performance requirements for cables under fire conditions
BS 5467	Cables with thermoset insulation up to 3.3kV
BS EN 61034	Measurement of smoke density of cables burning under defined conditions
BS EN 50267	Common test methods for cables under fire conditions
IEEE 45	Electrical installations on shipboard
IEEE 1580	Marine cable for use on shipboard and fixed or floating platforms
IEC 60092-350	General construction and test requirements
IEC 60092-353	Single and multi-core cables with extruded solid insulation for rated voltages 1kV and 3kV
IEC 60092-375	General instrumentation, control and communication cables
IEC 60228	Conductors for insulated cables
IEC 60331	Fire resisting characteristics of electric cables
IEC 60332-1	Flame retardancy testing on electric cables (test on a single vertical cable)
IEC 60332-3-22	Flame retardancy testing on electric cables (test on bunched wires or cable)
IEC 60502-1	Cables for rated voltages of 1kV
IEC 60754 1&2	Tests determining the amount of acid gas emitted by combustion
IEC 61034 1&2	Tests measuring the amount of smoke emitted during combustion

Current Ratings +40°C ambient air temperature

TABLE 5
CURRENT-CARRYING CAPACITIES OF TWO SINGLE-CORE 0.6/1KV 90°C

(LSFLEX® XL-20 Insulation)

Applicable to single-core cables in our XA, XDT, XL, XN and XU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	21	21	16	13	17	13	8	20	21	24
1.5	26	26	20	16	21	16	10	26	26	30
2.5	35	34	27	21	28	24	14	36	35	41
4	46	46	36	27	37	30	19	46	45	53
6	59	58	46	34	46	38	24	58	56	66
10	83	81	64	48	64	52	32	78	77	87
16	110	106	85	63	82	67	43	139	98	112
25	147	141	114	83	109	90	58	179	127	146
35	183	174	141	103	132	108	72	215	154	175
50	231	218	178	128	167	133	-	255	190	211
70	292	274	225	161	204	164	-	313	232	258
95	351	328	271	192	248	204	-	375	276	309
120	418	389	322	226	286	233	-	427	319	358
150	483	448	373	260	336	263	-	480	368	401
185	555	512	428	296	377	309	-	543	412	463
240	668	613	515	353	452	369	-	630	486	536
300	772	705	594	404	-	-	-	711	548	620
400	933	843	715	480	-	-	-	808	650	706
500	1090	975	830	552	-	-	-	913	733	800
630	1288	1135	969	639	-	-	-	1026	860	930

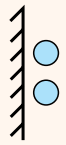
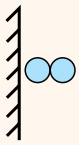
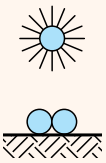
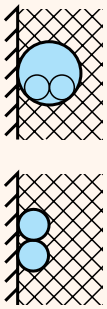
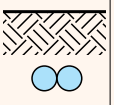
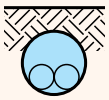
Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 90°C.

Current Ratings +40°C ambient air temperature

TABLE 6
CURRENT-CARRYING CAPACITIES OF TWO SINGLE-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

Applicable to single-core cables in our FP, HB, EH, EZ, CC, KK, KF, FR, SF, SD, V1, CN, CDT, EU, KA, KL, KN, KDT and KU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	26	26	21	18	21	16	10	21	24	26
1.5	32	32	26	22	25	20	13	26	30	33
2.5	43	42	34	29	33	28	18	36	39	46
4	57	56	45	38	45	37	23	48	51	59
6	73	70	57	48	56	46	30	60	64	74
10	102	98	80	67	77	62	40	80	86	97
16	135	129	105	88	102	83	53	154	112	127
25	178	170	139	116	133	109	72	198	143	163
35	221	210	172	143	167	132	88	238	176	195
50	279	263	218	179	207	164	-	282	215	236
70	351	329	273	224	263	204	-	346	266	288
95	422	395	329	269	312	257	-	416	312	352
120	500	466	390	318	364	296	-	473	359	400
150	577	536	450	366	426	344	-	531	414	448
185	660	611	516	418	481	394	-	601	464	517
240	794	732	621	500	583	476	-	698	548	600
300	916	841	716	575	-	-	-	789	631	694
400	1105	1006	860	687	-	-	-	898	734	790
500	1290	1164	999	794	-	-	-	1018	855	921
630	1529	1359	1168	925	-	-	-	1148	977	1045

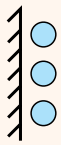
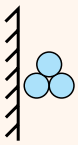
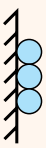
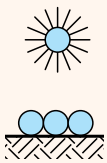
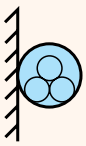
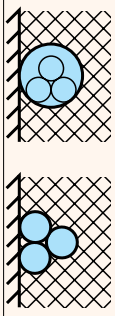
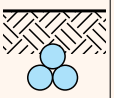
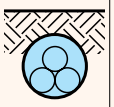
Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 110°C.

Current Ratings +40°C ambient air temperature

TABLE 8
CURRENT-CARRYING CAPACITIES OF THREE SINGLE-CORE 0.6/1KV 90°C

(LSFLEX® XL-20 Insulation)

Applicable to single-core cables in our XA, XDT, XL, XN and XU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	20	17	16	13	15	12	8	18	19	22
1.5	25	22	20	16	19	15	10	22	23	27
2.5	33	29	27	21	24	20	14	31	30	38
4	45	38	36	27	31	26	19	40	38	49
6	57	49	46	34	41	34	24	50	49	60
10	80	69	64	48	55	45	32	67	66	79
16	106	91	85	63	73	58	43	117	85	101
25	142	121	114	83	94	77	58	151	109	132
35	177	151	141	103	118	96	72	180	134	158
50	223	191	178	128	144	114	-	214	163	190
70	283	241	225	161	183	146	-	262	203	232
95	341	290	271	192	214	176	-	313	237	276
120	406	346	322	226	256	209	-	356	279	320
150	470	400	372	260	291	236	-	400	316	358
185	540	459	427	296	334	268	-	452	357	413
240	651	553	514	352	391	320	-	523	416	477
300	752	637	591	402	458	375	-	589	479	552
400	909	764	709	477	533	427	-	668	554	626
500	1062	884	821	546	630	506	-	752	642	707
630	1256	1030	956	630	719	571	-	843	729	820

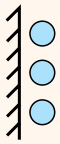
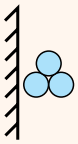
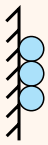
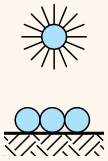
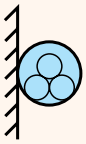
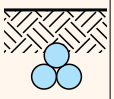
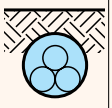
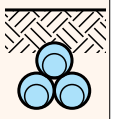
Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 90°C.

Current Ratings +40°C ambient air temperature

TABLE 9
CURRENT-CARRYING CAPACITIES OF THREE SINGLE-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

Applicable to single-core cables in our LS, EZ, EH, CC, FR, CN, KK, KF, JL, CDT, V1, EU, CA, KA, KL, KN, KDT and KU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	25	22	21	18	18	14	10	20	21	24
1.5	31	27	26	22	23	18	13	25	26	30
2.5	42	36	34	29	31	25	18	36	34	42
4	55	48	45	38	40	33	23	46	44	54
6	70	61	57	48	50	41	30	57	55	67
10	99	85	80	67	70	57	40	77	76	88
16	130	112	105	88	91	74	53	130	97	115
25	173	149	139	116	121	100	72	168	125	148
35	214	184	172	143	148	121	88	201	151	176
50	270	233	217	179	190	146	-	237	188	212
70	340	292	273	224	234	187	-	291	229	259
95	410	353	329	269	277	228	-	348	268	315
120	487	418	390	317	331	269	-	396	316	357
150	562	482	450	365	378	306	-	445	357	400
185	644	553	516	417	438	359	-	503	404	461
240	775	665	620	499	538	439	-	583	481	533
300	895	766	714	572	612	501	-	657	542	617
400	1079	918	855	682	757	575	-	746	648	700
500	1260	1064	990	786	864	692	-	843	729	815
630	1493	1240	1154	913	993	787	-	947	828	920

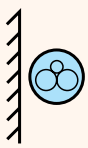
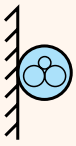
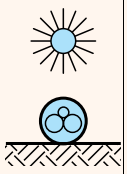
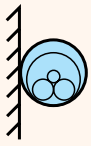
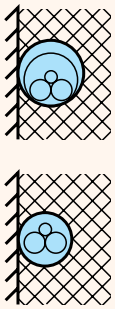
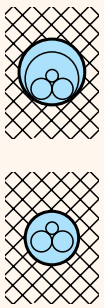
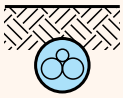
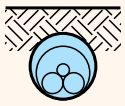
Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 110°C.

Current Ratings +40°C ambient air temperature

TABLE 11
CURRENT-CARRYING CAPACITIES OF TWO-CORE 0.6/1KV 90°C

(LSFLEX® XL-20 Insulation)

Applicable to two-core cables in our XA, XL, XN, DA and DP series

	Unenclosed			Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation		
								
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible
1	19	18	16	16	14	9	19	20
1.5	24	23	20	20	18	11	24	25
2.5	32	30	26	27	25	16	34	33
4	43	40	35	35	33	21	45	43
6	55	51	44	44	42	27	56	54
10	78	72	62	62	58	36	75	74
16	103	96	82	80	78	49	132	95
25	136	128	108	106	105	66	170	124
35	169	158	134	129	129	81	205	150
50	213	199	167	163	158	-	244	186
70	269	251	209	207	200	-	300	231
95	322	300	248	242	247	-	360	271
120	381	355	292	289	287	-	410	318
150	438	408	333	328	328	-	460	360
185	499	464	377	375	379	-	520	407
240	596	554	446	439	449	-	603	475
300	682	633	507	511	516	-	680	544
400	811	751	597	595	596	-	771	631
500	932	862	679	699	678	-	862	729

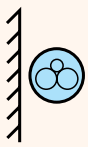
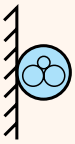
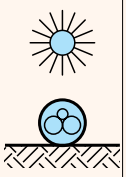
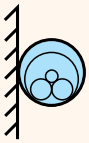
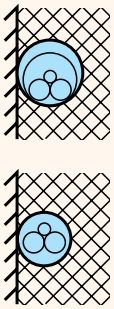
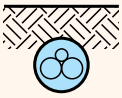
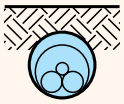
Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 90°C.

Current Ratings +40°C ambient air temperature

TABLE 12
CURRENT-CARRYING CAPACITIES OF TWO-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

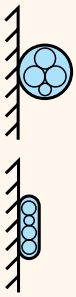
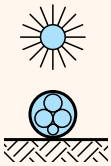
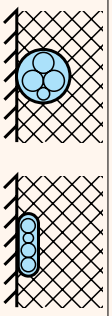
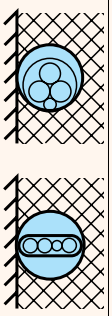
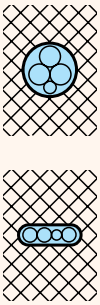
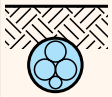
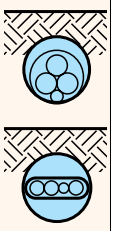
Applicable to two-core cables in our EZ, EH, FR, KK, KF, CA, FD, CN, CC, NB, NC, KA, KL, KG, CN and KN series

	Unenclosed			Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation		
								
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible
1	24	23	21	20	15	11	22	23
1.5	30	28	26	24	19	14	28	29
2.5	40	38	34	32	27	19	39	37
4	53	50	45	43	36	26	51	49
6	67	63	57	54	45	33	64	62
10	94	88	80	75	60	45	85	84
16	124	116	105	100	81	59	145	109
25	163	154	138	129	107	79	188	139
35	202	190	170	163	133	97	226	171
50	254	238	213	202	160	-	268	209
70	318	299	266	257	205	-	330	259
95	381	357	317	303	250	-	396	304
120	450	421	372	362	294	-	452	357
150	515	482	425	412	333	-	507	403
185	586	547	481	474	389	-	573	456
240	698	652	570	577	470	-	665	541
300	799	745	650	656	536	-	751	611
400	949	884	767	801	615	-	853	727
500	1091	1014	877	913	724	-	957	820

Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 110°C.

Current Ratings +40°C ambient air temperature

TABLE 14
CURRENT-CARRYING CAPACITIES OF MULTI-CORE 0.6/1KV 90°C
(LSFLEX® XL-20 Insulation)
Applicable to multi-core cables in our XA, XL, XN, XU, DA and DP series

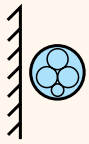
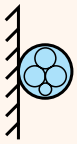
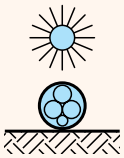
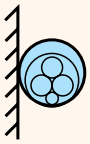
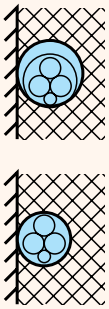
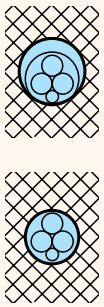
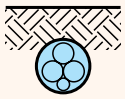
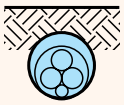
	Unenclosed			Enclosed	Thermal Insulation				Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation, unenclosed	Partially surrounded by thermal insulation, in a wiring enclosed	Completely surrounded by thermal insulation, unenclosed	Completely surrounded by thermal insulation, in a wiring enclosed		
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper Flexible
1	16	15	13	14	12	10	7	6	16	17
1.5	20	19	17	17	15	13	9	8	20	21
2.5	27	26	22	23	21	19	13	12	29	28
4	36	34	29	29	28	24	18	15	37	36
6	46	43	37	37	36	30	22	19	46	45
10	66	61	52	52	49	42	31	26	63	62
16	87	81	69	67	66	55	41	34	110	79
25	116	108	92	89	89	73	56	46	143	103
35	144	135	113	111	110	91	69	57	172	127
50	182	170	142	136	134	108	-	-	204	155
70	230	214	177	173	170	138	-	-	251	193
95	275	256	211	202	210	167	-	-	302	226
120	327	303	248	242	245	197	-	-	344	266
150	375	348	283	274	280	222	-	-	385	300
185	428	396	320	314	323	257	-	-	435	339
240	511	472	379	379	383	309	-	-	504	402
300	584	539	430	-	-	-	-	-	567	452
400	692	638	504	-	-	-	-	-	640	537
500	794	730	573	-	-	-	-	-	714	602

Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 90°C.

Current Ratings +40°C ambient air temperature

TABLE 15
CURRENT-CARRYING CAPACITIES OF MULTI-CORE 0.6/1KV 110°C

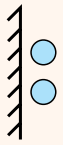
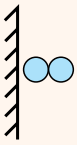
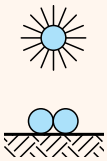
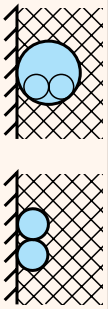
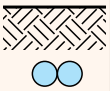
(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)
Applicable to multi-core cables in our EZ, EH, CC, FR, FH, CN, OD, KK, KF, EU, EA, CA, NB, NC, KA, KL, KG, KN and KU series

	Unenclosed			Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation		
								
Conductor size mm²	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper
	Flexible	Flexible	Flexible	Flexible				Flexible
1	21	19	18	17	13	9	19	20
1.5	26	24	22	21	16	12	24	24
2.5	34	32	29	27	23	17	33	31
4	45	42	39	36	30	22	43	41
6	57	54	49	46	38	28	53	51
10	80	75	68	65	51	38	71	71
16	106	99	89	84	68	50	122	91
25	140	131	118	112	93	67	158	118
35	173	162	145	137	112	83	190	143
50	218	204	182	175	139	-	226	178
70	273	255	227	217	173	-	277	217
95	327	306	271	263	216	-	333	259
120	387	360	318	306	249	-	379	298
150	444	413	364	356	288	-	426	341
185	505	470	412	402	329	-	481	381
240	602	559	488	489	398	-	558	453
300	688	638	555	-	-	-	629	509
400	817	756	655	-	-	-	713	606
500	936	865	746	-	-	-	797	680

Values are in Amps and based on ambient temperature of 40°C in air, 25°C in ground, maximum conductor temperature of 110°C.

Current Ratings +30°C ambient air temperature

TABLE 5
CURRENT-CARRYING CAPACITIES OF TWO SINGLE-CORE 0.6/1KV 90°C
(LSFLEX® XL-20 Insulation)
Applicable to single-core cable in our XA, XDT, XL, XN and XU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	23	23	18	14	19	14	9	21	22	26
1.5	29	29	22	18	23	18	11	28	28	32
2.5	39	37	30	23	31	26	15	39	37	44
4	51	51	40	30	41	33	21	49	48	57
6	65	64	51	37	51	42	26	62	60	71
10	91	89	70	53	70	57	35	83	82	93
16	121	117	94	69	90	74	47	149	105	120
25	162	155	125	91	120	99	64	192	136	156
35	201	191	155	113	145	119	79	230	165	187
50	254	240	196	141	184	146	-	273	203	226
70	321	301	248	177	224	180	-	335	248	276
95	386	361	298	211	273	224	-	401	295	331
120	460	428	354	249	315	256	-	457	341	383
150	531	493	410	286	370	289	-	514	394	429
185	611	563	471	326	415	340	-	581	441	495
240	735	674	567	388	497	406	-	674	520	574
300	849	776	653	444	-	-	-	761	586	663
400	1026	927	787	528	-	-	-	865	696	755
500	1199	1073	913	607	-	-	-	977	784	856
630	1417	1249	1066	703	-	-	-	1098	920	995

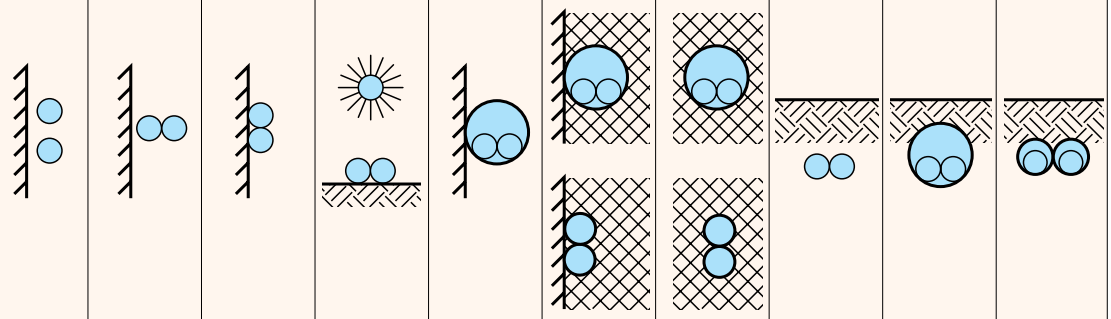
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 90°C.

Current Ratings +30°C ambient air temperature

TABLE 6
CURRENT-CARRYING CAPACITIES OF TWO SINGLE-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

Applicable to single-core cables in our FP, HB, EH, EZ, CC, KK, KF, FR, SF, SD, V1, CN, CDT, EU, KA, KL, KN, KDT and KU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	28	28	22	19	22	17	11	22	25	28
1.5	34	34	28	24	27	21	14	28	32	35
2.5	46	45	36	31	35	30	19	38	41	49
4	61	60	48	41	48	40	25	51	54	63
6	78	75	61	51	60	49	32	64	68	78
10	109	105	86	72	82	66	43	85	91	103
16	144	138	112	94	109	89	57	163	119	135
25	190	182	149	124	142	117	77	210	152	173
35	236	225	184	153	179	141	94	252	187	207
50	299	281	233	192	221	175	-	299	228	250
70	376	352	292	240	281	218	-	367	282	305
95	452	423	352	288	334	275	-	441	331	373
120	535	499	417	340	389	317	-	501	381	424
150	617	574	482	392	456	368	-	563	439	475
185	706	654	552	447	515	422	-	637	492	548
240	850	783	664	535	624	509	-	740	581	636
300	980	900	766	615	-	-	-	836	669	736
400	1182	1076	920	735	-	-	-	952	778	837
500	1380	1245	1069	850	-	-	-	1079	906	976
630	1636	1454	1250	990	-	-	-	1217	1036	1108

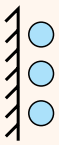
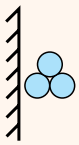
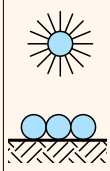
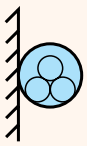
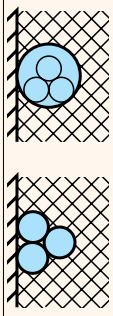
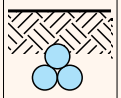
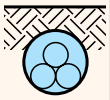
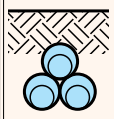
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 110°C.

Current Ratings +30°C ambient air temperature

TABLE 8
CURRENT-CARRYING CAPACITIES OF THREE SINGLE-CORE 0.6/1KV 90°C

(LSFLEX® XL-20 Insulation)

Applicable to single-core cables in our XA, XDT, XL, XN and XU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	22	19	18	14	17	13	9	19	20	24
1.5	28	24	22	18	21	17	11	24	25	29
2.5	36	32	30	23	26	22	15	33	32	41
4	50	42	40	30	34	29	21	43	41	52
6	63	54	51	37	45	37	26	54	52	64
10	88	76	70	53	61	50	35	72	71	85
16	117	100	94	69	80	64	47	125	91	108
25	156	133	125	91	103	85	64	162	117	141
35	195	166	155	113	130	106	79	193	143	169
50	245	210	196	141	158	125	-	229	174	203
70	311	265	248	177	201	161	-	280	217	248
95	375	319	298	211	235	194	-	335	254	295
120	447	381	354	249	282	230	-	381	299	342
150	517	440	409	286	320	260	-	428	338	383
185	594	505	470	326	367	295	-	484	382	442
240	716	608	565	387	430	352	-	560	445	510
300	827	701	650	442	504	413	-	630	513	591
400	1000	840	780	525	586	470	-	715	593	670
500	1168	972	903	601	693	557	-	805	687	756
630	1382	1133	1052	693	791	628	-	902	780	877

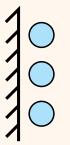
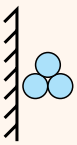
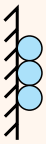
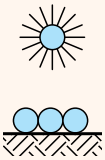
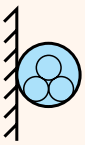
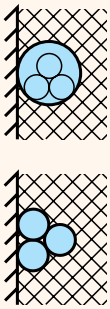
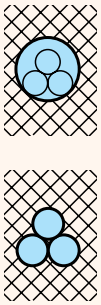
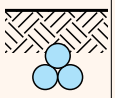
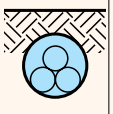
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 110°C.

Current Ratings +30°C ambient air temperature

TABLE 9
CURRENT-CARRYING CAPACITIES OF THREE SINGLE-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

Applicable to single-core cables in our LS, EZ, EH, CC, FR, CN, KK, KF, JL, CDT, V1, EU, CA, KA, KL, KN, KDT and KU series

	Unenclosed				Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure	
	Spaced	Spaced from Surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper
1	27	24	22	19	19	15	11	19	22	25
1.5	33	29	28	24	25	19	14	24	28	32
2.5	45	39	36	31	33	27	19	34	36	45
4	59	51	48	41	43	35	25	45	47	57
6	75	65	61	51	54	44	32	55	58	71
10	106	91	86	72	75	61	43	75	81	93
16	139	120	112	94	97	79	57	138	103	122
25	185	159	149	124	129	107	77	178	133	157
35	229	197	184	153	158	129	94	213	160	187
50	289	249	232	192	203	156	-	251	199	225
70	364	312	292	240	250	200	-	308	243	275
95	439	378	352	288	296	244	-	369	284	334
120	521	447	417	339	354	288	-	420	335	378
150	601	516	482	391	404	327	-	472	378	424
185	689	592	552	446	469	384	-	533	428	489
240	829	712	663	534	576	470	-	618	510	565
300	958	820	764	612	655	536	-	696	575	654
400	1155	982	915	730	810	615	-	791	687	742
500	1348	1138	1059	841	924	740	-	894	773	864
630	1598	1327	1235	977	1063	842	-	1004	878	975

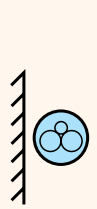
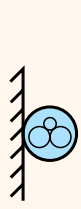
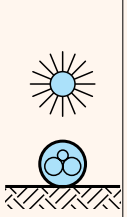
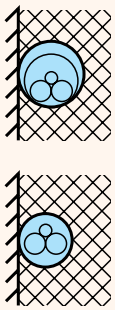
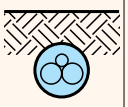
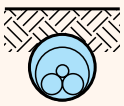
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 110°C.

Current Ratings +30°C ambient air temperature

TABLE 11
CURRENT-CARRYING CAPACITIES OF TWO-CORE 0.6/1KV 90°C

(LSFLEX® XL-20 Insulation)

Applicable to two-core cables in our NC, NB, XA, XL, XN, DA and DP series

	Unenclosed			Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation		
								
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible
1	21	20	18	18	13	9	20	21
1.5	26	25	22	22	18	11	26	27
2.5	35	33	29	30	25	15	36	35
4	47	44	39	39	32	20	48	46
6	61	56	48	48	41	25	60	58
10	86	79	68	68	56	35	80	79
16	113	106	90	88	73	45	141	102
25	150	141	119	117	97	61	182	133
35	186	174	147	142	117	73	219	161
50	234	219	184	179	143	-	261	199
70	296	276	230	228	176	-	321	247
95	354	330	273	266	220	-	385	290
120	419	391	321	318	251	-	439	340
150	482	449	366	361	292	-	492	385
185	549	510	415	413	331	-	556	435
240	656	609	491	483	394	-	645	508
300	750	696	558	562	460	-	728	582
400	892	826	657	655	525	-	825	675
500	1025	948	747	769	612	-	922	780

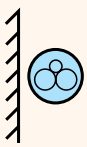
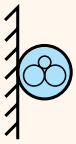
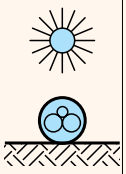
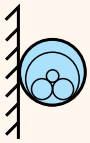
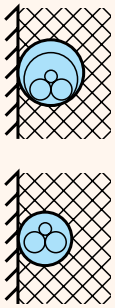
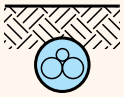
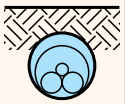
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 90°C.

Current Ratings +30°C ambient air temperature

TABLE 12
CURRENT-CARRYING CAPACITIES OF TWO-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

Applicable to two-core cables in our EZ, EH, FR, KK, KF, CA, FD, CC, KA, KL, KG, CN and KN series

	Unenclosed			Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation		
								
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible
1	26	25	22	21	16	12	21	24
1.5	32	30	28	26	20	15	27	31
2.5	43	41	36	34	29	20	37	39
4	57	54	48	46	39	28	49	52
6	72	67	61	58	48	35	61	66
10	101	94	86	80	64	48	83	89
16	133	124	112	107	87	63	154	116
25	174	165	148	138	114	85	199	147
35	216	203	182	174	142	104	240	181
50	272	255	228	216	171	-	284	222
70	340	320	285	275	219	-	350	275
95	408	382	339	324	268	-	420	322
120	482	450	398	387	315	-	479	378
150	551	516	455	441	356	-	537	427
185	627	585	515	507	416	-	607	483
240	747	698	610	617	503	-	705	573
300	855	797	696	702	574	-	796	648
400	1015	946	821	857	658	-	904	771
500	1167	1085	938	977	775	-	1014	869

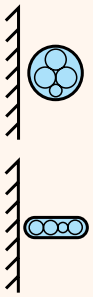
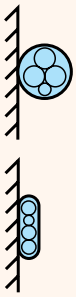
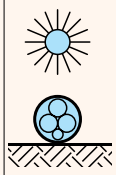
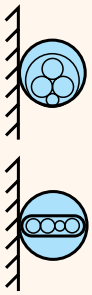
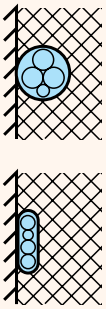
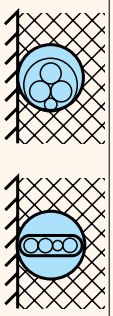
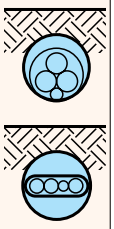
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 110°C.

Current Ratings +30°C ambient air temperature

TABLE 14
CURRENT-CARRYING CAPACITIES OF MULTI-CORE 0.6/1KV 90°C

(LSFLEX® XL-20 Insulation)

Applicable to multi-core cables in our NB, NC, XA, XL , XN, DA and DP series

	Unenclosed			Enclosed	Thermal Insulation				Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation, unenclosed	Partially surrounded by thermal insulation, in a wiring enclosed	Completely surrounded by thermal insulation, unenclosed	Completely surrounded by thermal insulation, in a wiring enclosed		
										
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible	Copper Flexible
1	18	17	14	15	13	11	8	7	17	18
1.5	22	21	19	19	17	14	10	9	21	22
2.5	30	29	24	25	23	21	14	13	31	30
4	40	37	32	32	31	26	20	17	40	39
6	51	47	41	41	40	33	24	21	49	48
10	73	67	57	57	54	46	34	29	67	66
16	96	89	76	74	73	61	45	37	118	85
25	128	119	101	98	98	80	62	51	153	110
35	158	149	124	122	121	100	76	63	184	136
50	200	187	156	150	147	119	-	-	218	166
70	253	235	195	190	187	152	-	-	269	207
95	303	282	232	222	231	184	-	-	323	242
120	360	333	273	266	270	217	-	-	368	285
150	413	383	311	301	308	244	-	-	412	321
185	471	436	352	345	355	283	-	-	465	363
240	562	519	417	417	421	340	-	-	539	430
300	642	593	473	-	-	-	-	-	607	484
400	761	702	554	-	-	-	-	-	685	575
500	873	803	630	-	-	-	-	-	764	644

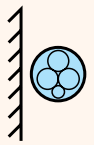
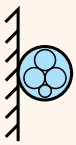
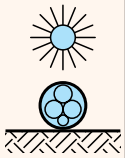
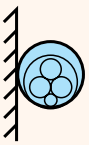
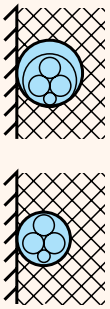
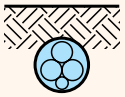
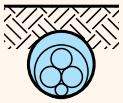
Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 90°C.

Current Ratings +30°C ambient air temperature

TABLE 15
CURRENT-CARRYING CAPACITIES OF MULTI-CORE 0.6/1KV 110°C

(LSFLEX® R-30, LSFLEX® R-70, LSFLEX® R-125, LSFLEX® X-125 Insulation)

Applicable to multi-core cables in our EZ, EH, CC, FR, FH, CN, OD, KK, KF, EU, EA, CA, KA, KL, KG, KN and KU series

	Unenclosed			Enclosed	Thermal Insulation		Buried Direct	Underground Wiring Enclosure
	Spaced	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation		
								
Conductor size mm²	Copper Flexible	Copper Flexible	Copper Flexible	Copper Flexible	Copper	Copper	Copper	Copper Flexible
1	22	20	19	18	14	10	18	21
1.5	28	26	24	22	17	13	22	25
2.5	36	34	31	29	25	18	32	33
4	48	45	42	39	32	24	41	43
6	61	58	52	49	41	30	52	54
10	86	80	73	70	55	41	69	75
16	113	106	95	90	73	54	129	96
25	150	140	126	120	100	72	167	125
35	185	173	155	147	120	89	201	152
50	233	218	195	187	149	-	240	189
70	292	273	243	232	185	-	294	230
95	350	327	290	281	231	-	353	275
120	414	385	340	327	266	-	402	316
150	475	442	389	381	308	-	452	361
185	540	503	441	430	352	-	510	404
240	644	598	522	523	426	-	591	480
300	736	683	594	-	-	-	667	540
400	874	809	701	-	-	-	756	642
500	1002	926	798	-	-	-	845	721

Values are in Amps and based on ambient temperature of 30°C in air, 15°C in ground, maximum conductor temperature of 110°C.

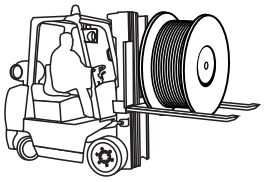
EU and XU Impedance Tables (Calculated)

CODE	Symmetrical Component (ohm/km)				PE (ohm/km @ 20°C)	
	R	X	R_o	X_o	R	X
EU 3C 1.5+1.5E	18.0000	0.1050	22.5472	0.3150	3.0824	0.1050
EU 3C 2.5+2.5E	10.8000	0.0977	15.1375	0.2931	2.3858	0.0977
EU 3C 4+4E	6.7000	0.0911	10.6581	0.2733	1.9027	0.0911
EU 3C 6+6E	4.4700	0.0871	7.7698	0.2613	1.4899	0.0871
EU 3C 10+ 3C 1.5E	2.5900	0.0810	6.5683	0.2430	1.5528	0.0350
EU 3C 16+3C 2.5E	1.6400	0.0779	3.0128	0.2337	1.1905	0.0326
EU 3C 25+3C 4E	1.0600	0.0783	3.3211	0.2349	0.8470	0.0304
EU 3C 35+3C 6E	0.7500	0.0761	2.4612	0.2283	0.6357	0.0290
EU 3C 50+3C 10E	0.5230	0.0754	1.6701	0.2262	0.4280	0.0270
EU 3C 70+3C 10E	0.3690	0.0744	1.4946	0.2232	0.4075	0.0270
EU 3C 95+3C 16E	0.2800	0.0729	1.0679	0.2187	0.2873	0.0260
EU 3C 120+3C 16E	0.2190	0.0723	0.9825	0.2169	0.2738	0.0260
EU 3C 150+3C 25E	0.1760	0.0728	0.7154	0.2184	0.1955	0.0261
EU 3C 185+3C 25E	0.1460	0.0730	0.6771	0.2190	0.1904	0.0261
EU 3C 240+3C 35E	0.1110	0.0722	0.5095	0.2166	0.1431	0.0254
EU 3C 300+3C 50E	0.0905	0.0718	0.3799	0.2154	0.1053	0.0251
EU 3C 400+3C 50E	0.0706	0.0714	0.3561	0.2364	0.1025	0.0251

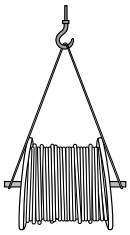
CODE	Symmetrical Component (ohm/km)				PE (ohm/km @ 20°C)	
	R	X	R_o	X_o	R	X
XU 3C 1.5+1.5E	17.0000	0.1050	22.5472	0.3150	3.0824	0.1050
XU 3C 2.5+2.5E	10.2000	0.0977	15.1375	0.2931	2.3858	0.0977
XU 3C 4+4E	6.3100	0.0911	10.6581	0.2733	1.9027	0.0911
XU 3C 6+6E	4.2100	0.0871	7.7698	0.2613	1.4899	0.0871
XU 3C 10+ 3C 1.5E	2.4400	0.0810	6.5683	0.2430	1.5528	0.0350
XU 3C 16+3C 2.5E	1.5400	0.0779	3.0128	0.2337	1.1905	0.0326
XU 3C 25+3C 4E	0.9950	0.0783	3.3211	0.2349	0.8470	0.0304
XU 3C 35+3C 6E	0.7070	0.0761	2.4612	0.2283	0.6357	0.0290
XU 3C 50+3C 10E	0.4930	0.0754	1.6701	0.2262	0.4280	0.0270
XU 3C 70+3C 10E	0.3480	0.0744	1.4946	0.2232	0.4075	0.0270
XU 3C 95+3C 16E	0.2640	0.0729	1.0679	0.2187	0.2873	0.0260
XU 3C 120+3C 16E	0.2070	0.0723	0.9825	0.2169	0.2738	0.0260
XU 3C 150+3C 25E	0.1670	0.0728	0.7154	0.2184	0.1955	0.0261
XU 3C 185+3C 25E	0.1380	0.0730	0.6771	0.2190	0.1904	0.0261
XU 3C 240+3C 35E	0.1060	0.0722	0.5095	0.2166	0.1431	0.0254
XU 3C 300+3C 50E	0.0860	0.0718	0.3799	0.2154	0.1053	0.0251
XU 3C 400+3C 50E	0.0675	0.0714	0.3561	0.2364	0.1025	0.0251

Recommended Cable Drum Handling Procedures

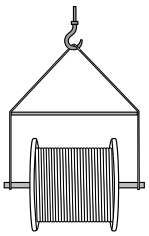
Do not lift by top flange, cable or reel will be damaged



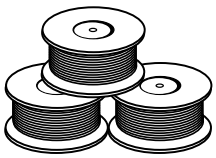
Cradle both reel flanges between forks.



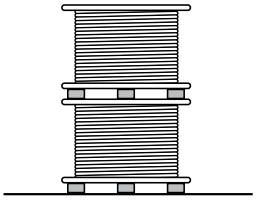
Use a spreader bar to prevent bending the reel flanges and mashing the cable.



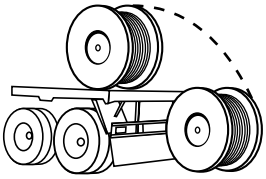
Reels can be hoisted with a shaft extended through both flanges.



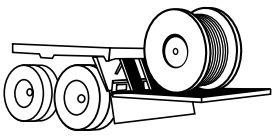
Upended heavy reels will often arrive damaged. Refuse or receive subject to inspection for hidden damage.



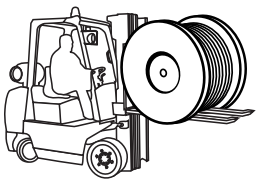
Place spacers under the bottom flange and between reels to create a space to insert the forks



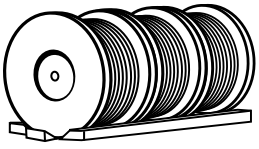
Never drop reels.



Lower reels from truck using hydraulic gate, hoist or fork lift, LOWER CAREFULLY.



Never allow fork tynes to touch cable surface or reel wrap.



Always load with flanges on edge and chock and block securely.

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