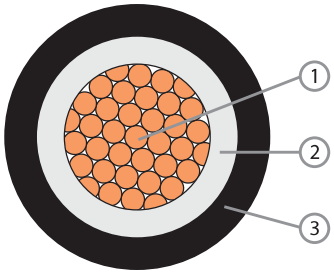
FRT-XH

CU / XLPE / LSZH (SINGLE CORE)

XLPE Insulated, LSZH Sheathed Cable, 0.6 / 1kV, IEC60502



Component
1. Plain Annealed Copper Wire
2. Cross-linked Polyethylene Compound
3. Low Smoke Zero Halogen (LSZH) Compound

CONSTRUCTION

Conductor:	Plain Annealed Copper, Class 2 Stranded Circular or Compacted
Insulation:	Cross-linked Polyethylene (XLPE) Compound
Insulation Colour:	Natural
Outer Sheath:	Low Smoke Zero Halogen (LSZH) Compound
Outer Sheath Colour:	Black

ELECTRICAL CHARACTERISTICS

Operating Voltage:	0.6/1kV
Operating Temperature:	-15°C to 90°C
Final Short Circuit Temperature:	250°C
Test Voltage:	3.5kV for 5 minutes

REFERENCE STANDARDS

Design Specification:	IEC60502-1
Conductor:	IEC60228, BS EN60228
Flame Retardancy:	IEC60332-3-22, BS EN60332-3-22
Low Smoke Zero Halogen:	IEC61034-2, BS EN61034-2 IEC60754-1, IEC60754-2 BS EN50267-2-1, BS EN50267-2-2

INSTALLATION REFERENCE

Min. Bending Radius (mm):	8 x cable overall diameter
Max. Pulling Tension (N/mm^2):	50

SINGLE CORE

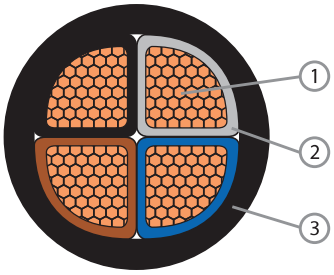
Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
1 x 1.5	7 / 0.53	0.7	6.1	75
1 x 2.5	7 / 0.67	0.7	6.5	89
1 x 4	7 / 0.85	0.7	7.1	110
1 x 6	7 / 1.04	0.7	7.6	136
1 x 10	7 / 1.35	0.7	8.6	186
1 x 16	7 / 1.70	0.7	9.6	254
1 x 25	7 / 2.14	0.9	11.3	367
1 x 35	7 / 2.52	0.9	12.5	472
1 x 50	19 / 1.78	1.0	14.1	612
1 x 70	19 / 2.14	1.1	16.1	837
1 x 95	19 / 2.52	1.1	18.2	1114
1 x 120	37 / 2.03	1.2	20.0	1374
1 x 150	37 / 2.25	1.4	22.2	1675
1 x 185	37 / 2.52	1.6	24.4	2066
1 x 240	61 / 2.25	1.7	27.5	2661
1 x 300	61 / 2.52	1.8	30.3	3291
1 x 400	61 / 2.85	2.0	33.9	4159
1 x 500	61 / 3.20	2.2	37.6	5188
1 x 630	127 / 2.52	2.4	42.4	6638
1 x 800	127 / 2.85	2.6	47.3	8394
1 x 1000	127 / 3.20	2.8	52.4	10479

For current rating and voltage drop, please refer to Table B1.5 and B2.5 on Page 70.

FRT-XH

CU / XLPE / LSZH (2 CORES - 5 CORES)

XLPE Insulated, LSZH Sheathed Cable, 0.6 / 1kV, IEC60502



Component
1. Plain Annealed Copper Wire
2. Cross-linked Polyethylene Compound
3. Low Smoke Zero Halogen (LSZH) Compound

CONSTRUCTION

Conductor:	Plain Annealed Copper, Class 2 Stranded Circular, Compacted or Sectored
Insulation:	Cross-linked Polyethylene (XLPE) Compound
Insulation Colour:	2 Cores: Brown, Blue or Red, Black 3 Cores: Brown, Black, Grey or Red, Yellow, Blue 4 Cores: Brown, Black, Grey, Blue or Red, Yellow, Blue, Black 5 Cores: Brown, Black, Grey, Blue, Green/Yellow or Red, Yellow, Blue, Black, Green/Yellow or White with Black numbering or Others
Assembly:	Cores cabled together with filler and covered with Polyester (PET) Tape
Outer Sheath:	Low Smoke Zero Halogen (LSZH) Compound
Outer Sheath Colour:	Black

ELECTRICAL CHARACTERISTICS

Operating Voltage:	0.6/1kV
Operating Temperature:	-15°C to 90°C
Final Short Circuit Temperature:	250°C
Test Voltage:	3.5kV for 5 minutes

REFERENCE STANDARDS

Design Specification:	IEC60502-1
Conductor:	IEC60228, BS EN60228
Flame Retardancy:	IEC60332-3-22, BS EN60332-3-22
Low Smoke Zero Halogen:	IEC61034-2, BS EN61034-2 IEC60754-1, IEC60754-2 BS EN50267-2-1, BS EN50267-2-2

INSTALLATION REFERENCE

Min. Bending Radius (mm):	8 x cable overall diameter
Max. Pulling Tension (N/mm^2):	50

	Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
2 CORES	2 x 1.5	7 / 0.53	0.7	10.0	137
	2 x 2.5	7 / 0.67	0.7	10.8	170
	2 x 4	7 / 0.85	0.7	11.9	220
	2 x 6	7 / 1.04	0.7	13.0	280
	2 x 10	7 / 1.35	0.7	14.9	399
	2 x 16	7 / 1.70	0.7	17.0	561
	2 x 25	7 / 2.14	0.9	20.4	841
	2 x 35	7 / 2.52	0.9	22.7	1096
	2 x 50 (S)	19 / 1.78	1.0	22.4	1240
	2 x 70 (S)	19 / 2.14	1.1	25.4	1694
	2 x 95 (S)	19 / 2.52	1.1	28.2	2248
	2 x 120 (S)	37 / 2.03	1.2	31.2	2782
	2 x 150 (S)	37 / 2.25	1.4	34.9	3418
	2 x 185 (S)	37 / 2.52	1.6	38.7	4233
	2 x 240 (S)	61 / 2.25	1.7	43.2	5458
	2 x 300 (S)	61 / 2.52	1.8	47.4	6736

Note: (S) - Sectoral Stranded Conductors.
For current rating and voltage drop, please refer to Table B1.6 and B2.6 on Page 71.

Table 32

FRT-XH

CU / XLPE / LSZH (2 CORES - 5 CORES)

XLPE Insulated, LSZH Sheathed Cable, 0.6 / 1kV, IEC60502

	Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
3 CORES	3 x 1.5	7 / 0.53	0.7	10.5	159
	3 x 2.5	7 / 0.67	0.7	11.4	201
	3 x 4	7 / 0.85	0.7	12.5	265
	3 x 6	7 / 1.04	0.7	13.8	344
	3 x 10	7 / 1.35	0.7	15.8	500
	3 x 16	7 / 1.70	0.7	18.1	715
	3 x 25	7 / 2.14	0.9	21.8	1082
	3 x 35	7 / 2.52	0.9	24.2	1424
	3 x 50 (S)	19 / 1.78	1.0	25.0	1751
	3 x 70 (S)	19 / 2.14	1.1	28.9	2434
	3 x 95 (S)	19 / 2.52	1.1	32.6	3256
	3 x 120 (S)	37 / 2.03	1.2	35.8	4047
	3 x 150 (S)	37 / 2.25	1.4	40.4	4967
	3 x 185 (S)	37 / 2.52	1.6	45.0	6169
	3 x 240 (S)	61 / 2.25	1.7	50.5	7978
	3 x 300 (S)	61 / 2.52	1.8	54.6	9852
	3 x 400 (S)	61 / 2.85	2.0	63.7	12567
4 CORES	4 x 1.5	7 / 0.53	0.7	11.3	189
	4 x 2.5	7 / 0.67	0.7	12.3	242
	4 x 4	7 / 0.85	0.7	13.6	323
	4 x 6	7 / 1.04	0.7	15.0	425
	4 x 10	7 / 1.35	0.7	17.2	624
	4 x 16	7 / 1.70	0.7	19.8	901
	4 x 25	7 / 2.14	0.9	23.9	1373
	4 x 35	7 / 2.52	0.9	26.7	1815
	4 x 50 (S)	19 / 1.78	1.0	27.0	2254
	4 x 70 (S)	19 / 2.14	1.1	31.4	3162
	4 x 95 (S)	19 / 2.52	1.1	35.3	4241
	4 x 120 (S)	37 / 2.03	1.2	39.1	5302
	4 x 150 (S)	37 / 2.25	1.4	44.8	6503
	4 x 185 (S)	37 / 2.52	1.6	49.8	8104
	4 x 240 (S)	61 / 2.25	1.7	57.1	10515
	4 x 300 (S)	61 / 2.52	1.8	63.4	13058
	4 x 400 (S)	61 / 2.85	2.0	72.8	16625
	4 x 500 (S)	61 / 3.20	2.2	80.8	20785
5 CORES	5 x 1.5	7 / 0.53	0.7	12.1	223
	5 x 2.5	7 / 0.67	0.7	13.3	288
	5 x 4	7 / 0.85	0.7	14.7	388
	5 x 6	7 / 1.04	0.7	16.3	512
	5 x 10	7 / 1.35	0.7	18.8	759
	5 x 16	7 / 1.70	0.7	21.6	1102
	5 x 25	7 / 2.14	0.9	26.3	1685
	5 x 35	7 / 2.52	0.9	29.3	2234
	5 x 50	19 / 1.78	1.0	34.2	2845
	5 x 70	19 / 2.14	1.1	40.0	3989
	5 x 95	19 / 2.52	1.1	45.3	5348
	5 x 120	37 / 2.03	1.2	50.6	6689

Note: (S) - Sectoral Stranded Conductors.
For current rating and voltage drop, please refer to Table B1.6 and B2.6 on Page 71.