

**Power Cable
Control Cable
Building Wire
Automotive Wire**



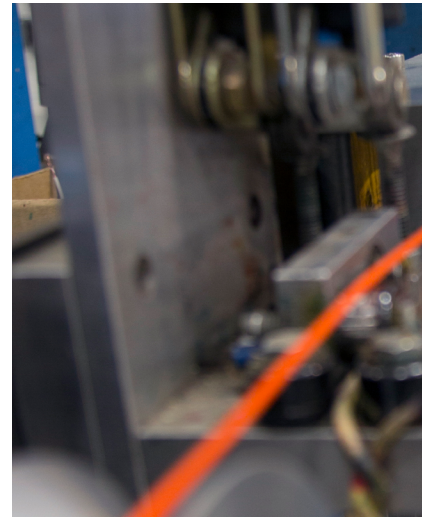


About Empire

Empire is an innovative manufacturer of custom cable assemblies and distributor of automation, cable, electrical, and safety products. Our roots began with cable distribution and we quickly grew to be one of the leading automation distributors and manufacturers in the Midwest. Family owned and operated since 1999; Empire was acquired by EIS, Inc. in the spring of 2017 and is now part of the Genuine Cable Group.

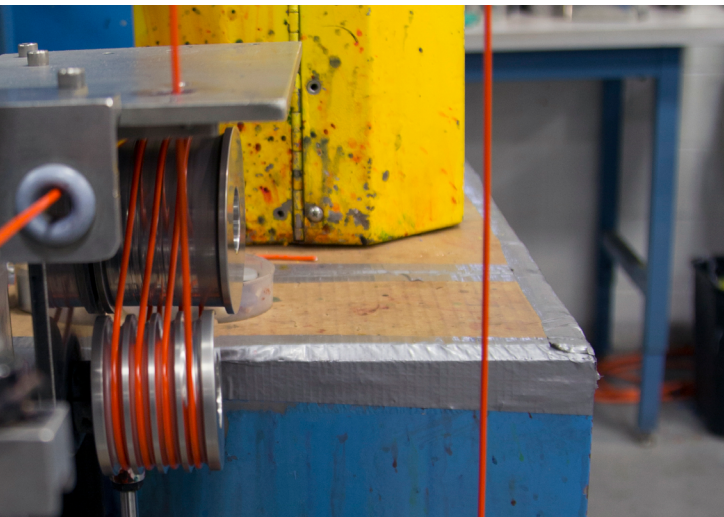
Empire has been recognized and won numerous awards for innovation, customer service and growth. Empire distinguishes itself through strong technical capabilities, commitment to innovation, training, inventory, education and above all customer service. Our partners enjoy a motivated and enthusiastic staff eager to promote their world-class products and expand their market base. Our knowledgeable technical staff is always ready to assist. Whether it be answering questions regarding our vast line of products, offering cost effective options, introducing the latest in automation technologies, or assisting in the design and implementation of your automation project.

Commitment to quality and high standards is a priority for Empire. We are an ISO 9001:2015 certified company, and a member of the Association for High Technology Distribution (AHTD). Empire can meet and exceed expectations in today's competitive marketplace.





Standard Flex Cable (SF)	4
Enerflex Cable (EF)	5
Flexible Power Cable (SF)	6
Flexible Drive Cable (VFD)	7
Vinyl Nylon Tray Cable (VNTC)	8
Portable Cord (SO, STO, SJO)	9
Thermoplastic Nylon Wire (TFFN, THHN)	12
Machine Tool Wire (MTW)	14
Tri-Rated Hookup Wire (H07)	16
Dual-Rated Hookup Wire (UL1007/1569)	17
Motor Lead Wire (SRML)	18
Automotive Wire (GXL, TXL, SXL)	19
Battery Cable (SGX)	22
Welding Cable (WC)	23



Wire Dye & Stripe

Get the wire color/stripe combination you are looking for without the long lead time. Empire has the capability to dye & stripe multiple variations of wire in house.



Standard Flex Cable

(SF) TPE Jacket



Overview

Finely stranded bare copper conductors cabled with a non-woven polyester wrap, clear mylar and an oil/sunlight resistant gray TPE overall jacket. Used in machine tool machinery, food & beverage, processing equipment, automotive and machine wiring.

16 AWG (26x30) 1.31mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-1607-BL09-TPE	7	0.415	10.5	110	Blue
SF-1607-BK09-TPE	7	0.415	10.5	110	Black
SF-1607-RD09-TPE	7	0.415	10.5	110	Red
SF-1611-BL09-TPE	11	0.510	13.0	163	Blue
SF-1611-RD09-TPE	11	0.510	13.0	163	Red
SF-1612-BK09-TPE	12	0.552	14.0	185	Black
SF-1613-BL09-TPE	13	0.550	14.0	195	Blue
SF-1619-BL09-TPE	19	0.643	16.3	285	Blue
SF-1619-BK09-TPE	19	0.643	16.3	285	Black
SF-1625-BL09-TPE	25	0.750	19.0	375	Blue
SF-1625-BK09-TPE	25	0.750	19.0	375	Black
SF-1625-RD09-TPE	25	0.750	19.0	375	Red
SF-1633-BL09-TPE	33	0.800	20.3	450	Blue
SF-1633-RD09-TPE	33	0.800	20.3	450	Red
SF-1643-BL09-TPE	43	0.960	24.4	625	Blue
SF-1649-BL09-TPE	49	1.000	25.4	760	Blue

Approvals



UL

- TPEN/TPE
- TC-ER, TFFN
- DRY OIL RES I/II
- SUN RES
- DIR BUR
- FT4/IEEE 1202 or MTW flexing
- Standard 66, 1277
- 1581 vertical tray flame test

CSA

- AWM I/II A/B 105°C W75 1000V (-40°C)
- FT4 Flame Test
- c(UL) CIC/TC FT4

NEC

- Article 336

RoHS

- Complies EU Dir. 2011/65/EC (RoHS-2)

Technical Data

Min. bend radius:	5 x cable diameter
Temperature rating:	-40°C to +90°C
Nominal Voltage:	600V RMS max 1,000V TC wind turbine (WTTC)
DC Resistance per conductor @ 20°C:	4.18 ohms/ 1M' nominal

Performance:

Over one million continuous rolling flex cycles at a minimum bend radius of 10x cable diameter.

Color code:

- Blue conductors w/ black ink print; green/yellow ground; #2 white w/ blue stripe
- Blue conductors w/ black ink print; green yellow ground; #2 white w/ blue stripe
- Red conductors w/ white ink print; green/yellow ground

Approvals

UL

- TC-ER
- MTW
- THHN/THWN

CSA

- AWM I/II A/B 105°C W75 1000V (-40°C)
- FT4 flame test

RoHS

- Complies EU Dir. 2002/95/EC



Technical Data

- Min. bend radius: 10 x cable diameter
- Temperature rating: static: -25°C to +90°C
flexing: -5°C to +90°C
- Nominal Voltage: 600V RMS max
1,000V TC wind turbine (WTTC)
- Conductor stranding: Class M

Performance:

- Over one million continuous rolling flex cycles at a minimum bend radius of 10x cable diameter.

Color code:

- Blue conductors w/ black ink print; green/yellow ground; #2 white w/ blue stripe

Overview

Finely stranded bare copper conductors; specially formulated PVC/nylon insulation; dry lubricant; specially formulated and chemical resistant black Thermoplastic Elastomer (TPE) jacket. Used in cable tracks, gantry robots, pick and place units, conveyor systems, machine tools, automated handling equipment and other continuous flexing applications.

16 AWG (26x30) 1.31mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
EF-1612-BL01	12	0.580	14.7	220	Blue
EF-1619-BL01	19	0.698	17.7	285	Blue
EF-1625-BL01	25	0.810	20.6	397	Blue
EF-1633-BL01	33	0.920	23.4	510	Blue
EF-1642-BL01	42	0.950	24.1	735	Blue
EF-1649-BL01	49	1.070	27.2	760	Blue
EF-1665-BL01	65	1.210	30.7	890	Blue

Flexible Power Cable

(SF) TPE Jacket



Overview

Finely stranded bare copper conductors cabled with a non-woven polyester wrap, clear mylar and an oil/sunlight resistant gray TPE overall jacket. Used in machine tool machinery, food & beverage, processing equipment, automotive and machine wiring.

14 AWG (41x30) 2.08mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-1404-BK01	4	0.380	9.7	97	Black
SF-1405-BK01	5	0.405	10.3	124	Black

12 AWG (65x30) 3.31mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-1204-BK01	4	0.422	10.7	136	Black
SF-1205-BK01	5	0.484	12.3	173	Black

10 AWG (104x30) 5.26mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-1004-BK01	4	0.539	13.7	220	Black

8 AWG (133x29) 13.30mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-0804-BK01	4	0.666	16.9	343	Black

Approvals



UL

- TPEN/TPE
- TC-ER, THHN
- DRY OIL RES I/II
- SUN RES
- DIR BUR
- FT4/IEEE 1202 or MTW flexing
- Standard 66, 1277
- 1581 vertical tray flame test

CSA

- AWM I/II A/B 105°C W75 1000V (-40°C)
- FT4 Flame Test
- c(UL) CIC/TC FT4

NEC

- Article 336

RoHS

- Complies EU Dir. 2011/65/EC (RoHS-2)

Technical Data

Min. bend radius: 5 x cable diameter

Temperature rating: -40°C to +90°C

Nominal Voltage: 600V RMS max
1,000V TC wind turbine (WTTC)

DC Resistance per conductor @ 20°C: 4.18 ohms/ 1M' nominal

Performance:

Over one million continuous rolling flex cycles at a minimum bend radius of 10x cable diameter.

Color code:

- Black conductors w/ white ink print; green/yellow ground

6 AWG (133x27) 13.30mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-0604-BK01	4	0.750	19.0	501	Black

4 AWG (133x25) 21.20mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-0404-BK01	4	0.973	24.7	825	Black

2 AWG (133x23) 33.60mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SF-0203-BK01	3	0.995	25.3	915	Black
SF-0204-BK01	4	1.221	31.0	1,193	Black

Flexible Drive Cable

(VFD) TPE Jacket Foil & Braided Shield

Approvals



UL

- TC-ER
- AWM/CE
- DP-1
- WTTC



Technical Data

Min. bend radius: 6 x cable diameter
 Temperature rating: -40°C to +90°C
 Nominal Voltage: 600V RMS max
 1,000V TC wind turbine (WTTC)
 DC Resistance per conductor @ 20°C: 4.18 ohms/ 1M' nominal

Color code:

- Black conductors w/ white ink print; green/yellow ground

Overview

Finely stranded tinned copper conductors; specially formulated PVC/nylon insulation; sunlight and chemical resistant black Polyvinyl Chloride (PVC) jacket. Used in cable tracks, gantry robots, pick and place units, conveyor systems, machine tools, automated handling equipment and other continuous flexing applications.

14 AWG (41x30) 2.08mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-1404S-BK01	4	0.560	14.2	200	Black

12 AWG (65x30) 3.31mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-1204S-BK01	4	0.615	15.6	262	Black

10 AWG (104x30) 5.26mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-1004S-BK01	4	0.700	17.8	359	Black

8 AWG (133x29) 8.37mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-0804S-BK01	4	0.925	23.5	603	Black

6 AWG (133x27) 13.30mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-0604S-BK01	4	1.010	25.7	763	Black

4 AWG (133x25) 21.20mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-0404S-BK01	4	1.155	29.3	1,126	Black

2 AWG (133x23) 33.60mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VFD-0204S-BK01	4	1.325	33.7	1,559	Black

Vinyl Nylon Tray Cable

(VNTC) Black PVC Jacket



Approvals



UL

- Style 1277, 1581
- Type TC Tray Cable

OSHA

- Approved when installed in accordance with NEC

NEC

- Articles 318 & 340

IEEE

- 383, 1202

RoHS

- Compliant / Heavy Metal Free

CSA

- FT4 Flame Test

Overview

Finely stranded, fully annealed copper conductors cabled with a non-woven polyamide wrap and a flame retardant, moisture/sunlight resistant polyvinyl chloride (PVC) overall jacket. Used in cable raceways and direct burial applications. It can also be used in wet or dry conditions. Permitted for use in Class I, Division 2 industrial hazardous locations per NEC.

Technical Data

Temperature rating: dry: -25°C to +90°C
wet: -25°C to +75°C

Nominal Voltage: 600V RMS max

Color code:

Cond. #	Color	Cond. #	Color	Cond. #	Color	Cond. #	Color
1	Black	8	Blue/Black	15	Yellow/Red	22	Black/Orange
2	Red	9	Orange/Black	16	Brown/Red	23	Red/Orange
3	Blue	10	Yellow/Black	17	Black/Blue	24	Blue/Orange
4	Orange	11	Brown/Black	18	Red/Blue	25	Yellow/Orange
5	Yellow	12	Black/Red	19	Orange/Blue		
6	Brown	13	Blue/Red	20	Yellow/Blue		
7	Red/Black	14	Orange/Red	21	Brown/Blue		

18 AWG (7/0.0152) 1.17mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VNTC-1803-01	3	0.285	7.2	46	Black
VNTC-1805-01	5	0.335	8.5	65	Black
VNTC-1807-01	7	0.360	9.1	82	Black
VNTC-1809-01	9	0.420	10.7	105	Black
VNTC-1812-01	12	0.445	11.3	131	Black
VNTC-1815-01	15	0.485	12.3	162	Black
VNTC-1819-01	19	0.570	14.5	209	Black
VNTC-1825-01	25	0.655	16.6	266	Black

16 AWG (7/0.0192) 1.47mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VNTC-1603-01	3	0.305	7.7	59	Black
VNTC-1605-01	5	0.360	9.1	85	Black
VNTC-1607-01	7	0.400	10.2	111	Black
VNTC-1609-01	9	0.460	11.7	137	Black
VNTC-1612-01	12	0.500	12.7	177	Black
VNTC-1619-01	19	0.625	15.9	278	Black
VNTC-1625-01	25	0.710	18.0	360	Black

14 AWG (7/0.0242) 1.83mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VNTC-1403-01	3	0.340	8.6	81	Black
VNTC-1405-01	5	0.400	10.2	117	Black
VNTC-1407-01	7	0.445	11.3	153	Black
VNTC-1409-01	9	0.505	12.8	191	Black
VNTC-1412-01	12	0.595	15.1	267	Black
VNTC-1419-01	19	0.695	17.7	393	Black
VNTC-1425-01	25	0.790	20.1	507	Black

12 AWG (7/0.0305) 2.34mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VNTC-1203-01	3	0.385	9.8	114	Black
VNTC-1205-01	5	0.455	11.6	165	Black
VNTC-1207-01	7	0.490	12.4	217	Black
VNTC-1209-01	9	0.610	15.5	293	Black
VNTC-1212-01	12	0.675	17.1	377	Black
VNTC-1215-01	15	0.7.5	18.7	460	Black
VNTC-1219-01	19	0.795	20.2	564	Black
VNTC-1225-01	25	0.945	24.0	769	Black

10 AWG (7/0.0385) 2.92mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VNTC-1003-01	3	0.450	11.4	165	Black
VNTC-1005-01	5	0.575	14.6	264	Black
VNTC-1007-01	7	0.625	15.9	343	Black
VNTC-1009-01	9	0.730	18.5	443	Black
VNTC-1012-01	12	0.800	20.3	575	Black

8 AWG (7/0.0486) 3.70mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
VNTC-0803-01	3	0.585	14.9	255	Black
VNTC-0805-01	5	0.703	17.9	399	Black
VNTC-0807-01	7	0.768	19.5	471	Black
VNTC-0809-01	9	0.940	23.9	715	Black
VNTC-0812-01	12	1.057	26.8	926	Black

Approvals

UL

- Standard 62

NEC

- Article 501.140 class I div. 2
- Article 400

MSHA

- Approved

8-2 AWG

CSA

- Standard C22.2 No.49
- FT2 flame test



Technical Data

Min. bend radius: 10 x cable diameter
 Temperature rating: -40°C to +90°C
 Nominal Voltage: 600V RMS max
 Conductor stranding: Class K per ASTM B 174

Color code:

- 2C - black, white
- 3C - black, white, green
- 4C - black, white, red, green
- 5C - black, white, red, green, orange

Overview

Stranded, annealed bare copper conductors; color coded, oil resistant Ethylene Propylene (EPDM) insulation; paper tape applied between the conductor and insulation; Water, sunlight and oil resistant, flame-retardant Chlorinated Polyethylene (CPE) jacket.

18 AWG (16x30) 1.02mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-1802-01	2	0.345	8.8	75	Black
SO-1803-01	3	0.365	9.3	87	Black
SO-1804-01	4	0.390	9.9	102	Black
SO-1805-01	5	0.465	11.8	116	Black

16 AWG (26x30) 1.31mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-1602-01	2	0.370	9.4	78	Black
SO-1603-01	3	0.390	9.9	105	Black
SO-1604-01	4	0.425	10.8	120	Black
SO-1605-01	5	0.495	12.6	143	Black

14 AWG (41x30) 2.08mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-1402-01	2	0.500	12.7	151	Black
SO-1403-01	3	0.530	13.5	176	Black
SO-1404-01	4	0.570	14.5	210	Black
SO-1405-01	5	0.668	17.0	272	Black

12 AWG (65x30) 3.31mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-1202-01	2	0.575	14.6	201	Black
SO-1203-01	3	0.600	15.2	235	Black
SO-1204-01	4	0.650	16.5	291	Black
SO-1205-01	5	0.713	18.1	338	Black

10 AWG (104x30) 5.26mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-1002-01	2	0.625	15.9	245	Black
SO-1003-01	3	0.660	16.8	307	Black
SO-1004-01	4	0.710	18.0	360	Black
SO-1005-01	5	0.770	19.6	440	Black

8 AWG (133x29) 8.37mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-0803-01CSA	3	0.720	21.7	491	Black
SO-0804-01CSA	4	0.780	24.6	640	Black
SO-0805-01CSA	5	0.860	27.3	690	Black

6 AWG (133x27) 13.30mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-0603-01CSA	3	0.800	24.9	695	Black
SO-0604-01CSA	4	0.890	27.7	850	Black
SO-0605-01CSA	5	0.945	31.1	930	Black

4 AWG (133x25) 21.20mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-0403-01CSA	3	0.940	29.0	950	Black
SO-0404-01CSA	4	1.010	32.0	1,100	Black
SO-0405-01CSA	5	1.135	36.0	1,160	Black

2 AWG (133x23) 33.60mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SO-0203-01CSA	3	1.090	33.7	1,310	Black
SO-0204-01CSA	4	1.170	37.1	1,590	Black
SO-0205-01CSA	5	1.433	40.9	1,890	Black

Portable Cord

(STOW) PVC Jacket



Overview

Stranded, annealed bare copper conductors; color coded Polyvinyl Chloride (PVC) insulation; water, sunlight and oil resistant Polyvinyl Chloride (PVC) jacket.

18 AWG (16x30) 1.02mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
STO-1802-05	2	0.350	8.9	56	Yellow
STO-1803-05	3	0.365	9.3	72	Yellow
STO-1803-09	3	0.365	9.3	72	Gray
STO-1804-01	4	0.395	10.0	85	Black
STO-1804-09	4	0.395	10.0	85	Gray

16 AWG (26x30) 1.31mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
STO-1602-05	2	0.375	9.6	76	Yellow
STO-1602-09	2	0.375	9.6	76	Gray
STO-1603-05	3	0.395	10.1	90	Yellow
STO-1603-09	3	0.395	10.1	90	Gray
STO-1604-05	4	0.425	10.8	107	Yellow
STO-1604-09	4	0.425	10.8	107	Gray

14 AWG (41x30) 2.08mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
STO-1402-05	2	0.505	12.8	120	Yellow
STO-1403-01	3	0.535	13.6	156	Black
STO-1403-05	3	0.535	13.6	156	Yellow
STO-1403-09	3	0.535	13.6	156	Gray
STO-1404-01	4	0.575	14.6	184	Black
STO-1404-05	4	0.575	14.6	184	Yellow
STO-1404-09	4	0.575	14.6	184	Gray

Approvals

- UL**
 - Listed
- CSA**
 - Certified
- NEC**
 - Article 400
- RoHS**
 - Compliant
- Fed. Spec.**
 - JC-580B



Technical Data

- Min. bend radius: 5 x cable diameter
- Temperature rating: -20°C to +60°C
- Nominal Voltage: 600V RMS max
- Conductor stranding: Class K per ASTM B 174

Color code:

- 2C - black, white
- 3C - black, white, green
- 4C - black, white, red, green

12 AWG (65x30) 3.31mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
STO-1203-05	3	0.600	15.2	208	Yellow
STO-1203-09	3	0.600	15.2	208	Gray
STO-1204-05	4	0.650	16.5	254	Yellow
STO-1204-09	4	0.650	16.5	254	Gray

10 AWG (104x30) 5.26mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
STO-1003-05	3	0.655	16.6	262	Yellow
STO-1003-09	3	0.655	16.6	262	Gray
STO-1004-05	4	0.710	18.0	330	Yellow
STO-1004-09	4	0.710	18.0	330	Gray

8 AWG (133x29) 8.37mm²

part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
STO-0803-05	3	0.874	22.2	415	Yellow
STO-0804-05	4	0.965	25.0	550	Yellow

Approvals

UL

- Standard 62

NEC

- Article 501.140 class I div. 2
- Article 400

MSHA

- Approved



8-2 AWG

CSA

- Standard C22.2 No.49
- FT2 flame test



Technical Data

Min. bend radius: 10 x cable diameter
 Temperature rating: -40°C to +90°C
 Nominal Voltage: 600V RMS max
 Conductor stranding: Class K per ASTM B 174

Color code:

- 2C - black, white
- 3C - black, white, green
- 4C - black, white, red, green
- 5C - black, white, red, green, orange

18 AWG (16x30) 1.02mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SJO-1802-01	2	0.295	7.5	54	Black
SJO-1802-05	2	0.295	7.5	54	Yellow
SJO-1803-01	3	0.320	8.1	70	Black
SJO-1803-05	3	0.320	8.1	70	Yellow
SJO-1804-01	4	0.355	9.0	92	Black
SJO-1804-05	4	0.355	9.0	92	Yellow

16 AWG (26x30) 1.31mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SJO-1602-01	2	0.320	8.1	66	Black
SJO-1602-05	2	0.320	8.1	66	Yellow
SJO-1603-01	3	0.345	8.8	89	Black
SJO-1603-05	3	0.345	8.8	89	Yellow
SJO-1604-01	4	0.385	9.8	112	Black
SJO-1604-05	4	0.385	9.8	112	Yellow

Overview

Stranded, annealed bare copper conductors; color coded, oil resistant Ethylene Propylene (EPDM) insulation; paper tape applied between the conductor and insulation; Water, sunlight and oil resistant, flame-retardant Chlorinated Polyethylene (CPE) jacket.

14 AWG (41x30) 2.08mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SJO-1402-01	2	0.360	9.1	87	Black
SJO-1403-01	3	0.380	9.7	106	Black
SJO-1403-05	3	0.380	9.7	106	Yellow
SJO-1404-01	4	0.415	10.5	144	Black
SJO-1404-05	4	0.415	10.5	144	Yellow

12 AWG (65x30) 3.31mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SJO-1202-01	2	0.425	10.8	138	Black
SJO-1203-01	3	0.450	11.4	173	Black
SJO-1203-05	3	0.450	11.4	173	Yellow
SJO-1204-01	4	0.500	12.7	214	Black

10 AWG (104x30) 5.26mm ²					
part no.	no. of cond.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SJO-1002-01	2	0.560	14.2	219	Black
SJO-1003-01	3	0.600	15.2	250	Black
SJO-1004-01	4	0.680	17.3	320	Black

Thermoplastic Nylon Wire

(TFFN/THHN) PVC Insulation



Overview

Annealed, bare copper conductor with a Polyvinyl Chloride (PVC) jacket. Commonly used in control panels machine tool applications, fixture wire, and appliance wire applications.

XX - wire color (refer to color code chart)

18 AWG (16x30) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-4G-XX	0.090	2.3	8	see color code

16 AWG (26x30) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TFFN-16G-XX	0.102	2.6	11	see color code

14 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-14G-XX	0.110	2.8	17	see color code

12 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-12G-XX	0.130	3.3	25	see color code

10 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-10G-XX	0.160	4.1	39	see color code

8 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-8G-XX	0.212	5.4	63	see color code

6 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-6G-XX	0.248	6.3	95	see color code

4 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-4G-XX	0.317	8.1	153	see color code

Approvals



UL

- Standard 1063, subject 758
- UL83 & UL1581
- VW-1 flame test
- Style 1015
- Gasoline and oil resistant II

CSA

- 22.2 No. 127

RoHS

- Compliant

Fed. Spec.

- JC-30A

Technical Data

Temperature rating: TFFN: -20°C to +90°C
THHN: -20°C to +105°C

Nominal Voltage: 600V RMS max
1,000V AWM style 1452

Impedance: TFFN: 43.08 ohms/ 1M' nominal
THHN: 41.08 ohms/ 1M'

DC Resistance per conductor @ 20°C: TFFN: 4.08 ohms/ 1M' nominal
THHN: 2.52 ohms/ 1M' nominal

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

2 AWG (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-2G-XX	0.375	9.5	234	see color code

1/0 (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-1/0-XX	0.474	12.0	372	see color code

2/0 (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-2/0-XX	0.518	13.2	462	see color code

3/0 (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-3/0-XX	0.568	14.4	572	see color code

4/0 (19XBC) mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-4/0-XX	0.624	15.8	712	see color code

Solid Thermoplastic Nylon Wire

(TFN/THHN) PVC Insulation



Approvals

UL

- Standard 83/758
- 90°C in dry locations
- 75°C in wet locations
- A-A-59544, NEMA WC-5, UL758

Technical Data

Temperature rating: -20°C to +90°C
 Nominal Voltage: 600V RMS max
 DC Resistance per conductor @ 20°C: 15.0 ohms/ 1M' nominal

Color code:

- | | | |
|-------------|-------------|-----------------|
| 00 - Clear | 06 - Brown | 12 - Tan |
| 01 - Black | 07 - Blue | 13 - Light Blue |
| 02 - White | 08 - Orange | 14 - Beige |
| 03 - Red | 09 - Gray | 15 - Maroon |
| 04 - Green | 10 - Purple | 16 - Silver |
| 05 - Yellow | 11 - Pink | 17 - Natural |



Overview

Annealed, solid, bare copper conductor with a Polyvinyl Chloride (PVC) jacket. Commonly used in control panels, machine tool applications, fixture wire, and appliance wire applications.

XX - wire color (refer to color code chart)

18 AWG (solid) 1.02mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TFN-18G-XX	0.080	2.0	7	see color code

16 AWG (solid) 1.31mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TFN-16G-XX	0.090	2.3	10	see color code

14 AWG (solid) 2.08mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-14GSOL-XX	0.102	2.6	15	see color code

12 AWG (solid) 3.31mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-12GSOL-XX	0.119	3.0	23	see color code

10 AWG (solid) 5.26mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
THHN-10GSOL-XX	0.161	4.1	38	see color code

Wire Dye & Stripe

Empire has the capability to dye & stripe TFFN/THHN wire in house. Get the wire color/stripe combination you are looking for without the long lead time.

Machine Tool Wire

(MTW) PVC Insulation



Approvals



UL

- Standard 1063, subject 758
- VW-1 flame test
- Style 1015

CSA

- 22.2 No. 127

RoHS

- Compliant

Technical Data

Temperature rating: -40°C to +105°C

Nominal Voltage: 600V RMS max
1,000V AWM style 1032

DC Resistance per conductor @ 20°C: 1.59 ohms/ 1M' nominal

Ampacity per NFPA 79 table 12.5.1: 29 amps max

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

Overview

Annealed, bare copper conductor with a Polyvinyl Chloride (PVC) jacket. Commonly used in control panels, machine tool applications, fixture wire, and appliance wire applications.

XX - wire color (refer to color code chart)

18 AWG (16x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-18G-XX	0.107	2.7	9	see color code

16 AWG (26x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-16G-XX	0.117	3.0	13	see color code

14 AWG (41x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-14G-XX	0.133	3.4	19	see color code

12 AWG (65x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-12G-XX	0.153	3.9	27	see color code

10 AWG (105x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-10G-XX	0.189	4.8	41	see color code

8 AWG (165x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-8G-XX	0.265	6.7	69	see color code

6 AWG (259x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-6G-XX	0.336	8.5	111	see color code

4 AWG (420x30) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-4G-XX	0.380	9.7	165	see color code

2 AWG (19XBC) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-2G-XX	0.417	10.6	249	see color code

1/0 (19XBC) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-1/0-XX	0.565	14.3	450	see color code

2/0 (19XBC) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-2/0-XX	0.620	15.7	551	see color code

3/0 (19XBC) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-3/0-XX	0.680	17.3	672	see color code

4/0 (19XBC) mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-4/0-XX	0.730	18.5	820	see color code

Extra Flex Machine Tool Wire

(MTW(EF) PVC Insulation)

Approvals



UL

- Standard 1063, subject 758
- VW-1 flame test
- FT1 vertical flame test
- Style 1232/1283/1346/10269

CSA

- 22.2 No. 210
- 105C TEW or AWM

SAE

- J1127 type SGT



Technical Data

Temperature rating: -40°C to +105°C

Nominal Voltage: 600V RMS max
1,000V

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

Overview

Annealed, bare copper conductor with a Polyvinyl Chloride (PVC) jacket. Commonly used in control panels, machine tool applications, fixture wire, and appliance wire applications.

XX - wire color (refer to color code chart)

6 AWG (266x30) 16.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-6G-XXEF	0.335	8.5	118	see color code

4 AWG (420x30) 25.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-4G-XXEF	0.367	9.3	164	see color code

2 AWG (525x30) 33.60mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-2G-XXEF	0.432	11.0	251	see color code

1/0 (1045x30) 50.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-1/0-XXEF	0.561	14.2	402	see color code

2/0 (1330x30) 70.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-2/0-XXEF	0.616	15.6	492	see color code

3/0 (1665x30) 95.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-3/0-XXEF	0.666	16.9	612	see color code

4/0 (2109x30) 120.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
MTW-4/0-XXEF	0.726	18.4	758	see color code

Tri-Rated Hookup Wire

(H07) PVC Insulation



Overview

Stranded, tinned copper conductor; Polyvinyl chloride (PVC) insulation. High temperature cable used in switchgear, control gear and instrumentation panels.

XX - wire color (refer to color code chart)

18 AWG (16x30) 1.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
H07-18G-XX	0.109	2.8	14	see color code

16 AWG (26x30) 1.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
H07-16G-XX	0.122	3.1	18	see color code

14 AWG (41x30) 2.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
H07-14G-XX	0.142	3.6	24	see color code

Approvals



UL

- Standard 1063, subject 758
- VW-1 flame test
- Style 1015
- Gasoline and oil resistant II

CSA

- 22.2 No. 127

RoHS

- Compliant 2002/95 EC

CE

- Low voltage directive 73/23/EEC and 93/68/EEC

Technical Data

Temperature rating: +105°C

Nominal Voltage: 600/1,000V

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

12 AWG (65x30) 4.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
H07-12G-XX	0.160	4.1	33	see color code

10 AWG (105x30) 6.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
H07-10G-XX	0.198	5.0	48	see color code

8 AWG (133x29) 10.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
H07-8G-XX	0.256	6.5	66	see color code

Dual-Rated Hookup Wire

(UL1007/1569) PVC Insulation

Approvals



UL

- Approved type 1007 & 1569
- VW-1 flame test

CSA

- Approved type TR-64
- FT1 vertical flame test

RoHS

- Compliant



Technical Data

Temperature rating: -40°C to +105°C

Nominal Voltage: 300V RMS max

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

Overview

Stranded, tinned copper conductor with a Polyvinylchloride (PVC) jacket. Commonly used in the internal wiring of appliances and electronics.

XX - wire color (refer to color code chart)

26 AWG (7x34) 0.14mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-26G-XX	0.050	1.3	2	see color code

24 AWG (7x32) 0.25mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-24G-XX	0.056	1.4	3	see color code

22 AWG (7x30) 0.34mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-22G-XX	0.062	1.6	4	see color code

20 AWG (10x30) 0.50mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-20G-XX	0.069	1.8	5	see color code

18 AWG (16x30) 1.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-18G-XX	0.080	2.0	7	see color code

16 AWG (26x30) 1.50mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-16G-XX	0.094	2.4	11	see color code

14 AWG (41x30) 2.50mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-14G-XX	0.105	2.7	16	see color code

12 AWG (65x30) 4.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-12G-XX	0.127	3.2	23	see color code

10 AWG (105x30) 6.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
UL1007-10G-XX	0.157	4.0	37	see color code

Motor Lead Wire

(SRML)



Approvals

- | | |
|---------------|-------------|
| UL | ASTM |
| • 3410 | • B-33 |
| • Subject 758 | • B-8 |
| CSA | |
| • AWM Class 1 | |
| • Group A/B | |

Overview

Stranded, tin-plated annealed copper conductor with extruded silicone rubber insulation and overall, non-fraying, fiberglass braid with glossy high temperature finish. Commonly used as motor lead wire for hazardous locations or lead wire for electrical equipment in high temperature environments.

XX - wire color (refer to color code chart)

Technical Data

Temperature rating: 18 - 6AWG: +105°C
4AWG - 4/0: 200°C

Voltage rating: 600V

Color code:

- | | | |
|-------------|-------------|-----------------|
| 00 - Clear | 06 - Brown | 12 - Tan |
| 01 - Black | 07 - Blue | 13 - Light Blue |
| 02 - White | 08 - Orange | 14 - Beige |
| 03 - Red | 09 - Gray | 15 - Maroon |
| 04 - Green | 10 - Purple | 16 - Silver |
| 05 - Yellow | 11 - Pink | 17 - Natural |

18 AWG (16x.0100) 1.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-18G-XX	0.121	3.1	11	see color code

16 AWG (26x.0100) 1.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-16G-XX	0.132	3.4	17	see color code

14 AWG (41x.0100) 2.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-14G-XX	0.150	3.8	23	see color code

12 AWG (65x.0100) 4.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-12G-XX	0.170	4.3	32	see color code

10 AWG (105x.0100) 6.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-10G-XX	0.227	5.8	53	see color code

8 AWG (133x.0111) 10.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-8G-XX	0.305	7.7	92	see color code

6 AWG (133x.0142) 16.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-6G-XX	0.345	8.8	133	see color code

4 AWG (133x.0177) 25.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-4G-XX	0.400	10.2	190	see color code

2 AWG (133x.0223) 35.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-2G-XX	0.547	13.9	280	see color code

1/0 (259x.0202) 50.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-1/0-XX	0.645	16.4	440	see color code

2/0 (259x.0229) 70.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-2/0-XX	0.700	17.8	659	see color code

3/0 (259x.0255) 95.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-3/0-XX	0.755	19.2	659	see color code

4/0 (259x.0286) 120.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SRML-4/0-XX	0.820	20.8	812	see color code

Approvals



SAE

- J-1128

Ford

- M1L-85A

Chrysler

- MS-5919



Technical Data

Temperature rating: -51°C to +125°C

Nominal Voltage: 50 VDC

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

Overview

Stranded, bare copper conductor; Cross-Linked Polyethylene (XLPE) insulation. Used in automotive applications; engine compartments where higher heat resistance and minimal diameter is required.

XX - wire color (refer to color code chart)

20 AWG (7x28) 0.50mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-20G-XX	0.096	2.4	7	see color code

18 AWG (16x30) 1.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-18G-XX	0.107	2.7	10	see color code

16 AWG (19x29) 1.50mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-16G-XX	0.118	3.0	13	see color code

14 AWG (19x27) 2.50mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-14G-XX	0.140	3.6	19	see color code

12 AWG (19x25) 4.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-12G-XX	0.160	4.1	28	see color code

10 AWG (19x23) 6.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-10G-XX	0.192	4.9	41	see color code

8 AWG (19x21) 10.00mm²

part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
SXL-8G-XX	0.227	5.8	92	see color code

Thin Insulation Wire

(TXL) XLPE Insulation



Overview

Stranded, bare copper conductor; Cross-Linked Polyethylene (XLPE) insulation. Used in automotive applications; engine compartments where higher heat resistance and minimal diameter is required.

XX - wire color (refer to color code chart)

22 AWG (7x30) 0.34mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-22G-XX	0.062	1.6	3	see color code

20 AWG (7x28) 0.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-20G-XX	0.070	1.8	5	see color code

18 AWG (16x30) 1.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-18G-XX	0.079	2.0	7	see color code

16 AWG (19x29) 1.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-16G-XX	0.089	2.3	9	see color code

Approvals



SAE

- J-1128

Ford

- ESB-M1L123A

Chrysler

- MS-8288

Technical Data

Temperature rating: -40°C to +105°C

Nominal Voltage: 60 VDC

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

14 AWG (19x27) 2.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-14G-XX	0.103	2.6	14	see color code

12 AWG (19x25) 4.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-12G-XX	0.126	3.2	22	see color code

10 AWG (19x23) 6.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-10G-XX	0.155	3.9	35	see color code

8 AWG (19x0.285) 10.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
TXL-8G-XX	0.191	4.9	44	see color code

Medium Insulation Wire

(GXL) XLPE Insulation

Approvals



SAE

- J-1128

Ford

- M1L-85B

Chrysler

- MS-8900



Technical Data

Temperature rating: -40°C to +105°C

Nominal Voltage: 60 VDC

Color code:

00 - Clear	06 - Brown	12 - Tan
01 - Black	07 - Blue	13 - Light Blue
02 - White	08 - Orange	14 - Beige
03 - Red	09 - Gray	15 - Maroon
04 - Green	10 - Purple	16 - Silver
05 - Yellow	11 - Pink	17 - Natural

Overview

Stranded, bare copper conductor; Cross-Linked Polyethylene (XLPE) insulation. Used in automotive applications; engine compartments where higher heat resistance and minimal diameter is required.

XX - wire color (refer to color code chart)

20 AWG (7x28) 0.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-20G-XX	0.096	2.4	7	see color code

18 AWG (16x30) 1.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-18G-XX	0.102	2.6	9	see color code

16 AWG (19x29) 1.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-16G-XX	0.118	3.0	13	see color code

14 AWG (19x27) 2.50mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-14G-XX	0.137	3.5	19	see color code

12 AWG (19x25) 4.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-12G-XX	0.160	4.1	26	see color code

10 AWG (19x23) 6.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-10G-XX	0.191	4.8	40	see color code

8 AWG (19x0.285) 10.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	jacket color
GXL-8G-XX	0.234	5.9	64	see color code

Automotive Battery Cable

(SGX) XLPE Insulation



Approvals

DELPHI CHRYSLER  SAE

SAE

- J1654

Chrysler

- MS-5919

Ford

- ESB-M1L85-A
- ESF-M1L92-A

Delphi

- ESM-3024

Technical Data

Temperature rating: -40°C to +125°C

Nominal Voltage: 60V

Overview

Soft-annealed, bare copper conductor; Cross-Linked Polyethylene (XLPE) insulation. Used in automotive applications; engine starters or battery grounds where resistance to abrasion, heat and aging is needed.

6 AWG (7x28) 16.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-6G-01	0.305	7.7	107	Black
SGX-6G-03	0.305	7.7	107	Red

4 AWG (16x30) 25.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-4G-01	0.375	9.5	153	Black
SGX-4G-03	0.375	9.5	153	Red

2 AWG (19x29) 35.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-2G-01	0.438	11.1	248	Black
SGX-2G-03	0.438	11.1	248	Red

1/0 (19x27) 50.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-1/0-01	0.525	13.3	383	Black
SGX-1/0-03	0.525	13.3	383	Red

2/0 (19x25) 70.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-2/0-01	0.575	14.6	470	Black
SGX-2/0-03	0.575	14.6	470	Red

3/0 (19x23) 95.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-3/0-01	0.654	16.6	589	Black
SGX-3/0-03	0.654	16.6	589	Red

4/0 (19x21) 120.00mm ²				
part no.	cable Ø (in / mm)		lbs/1,000ft	ins. color
SGX-4/0-01	0.706	17.9	766	Black
SGX-4/0-03	0.706	17.9	766	Red

Approvals

ICEA

- S-75-381

RoHS

- Compliant

ASTM

- B-3
- B-172



Technical Data

Temperature rating: -55°C to +105°C

Nominal Voltage: 600V max

Overview

Annealed, bare copper conductor with a Ethylene Propylene Rubber (EPDM) jacket. Commonly used for secondary voltage resistance welding cable leads, temporary power uses, and electric welders.

6 AWG (273x30) 16.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-6G-01	115	0.320	8.1	125	Black
WC-6G-03	115	0.320	8.1	125	Red
WC-6G-04	115	0.320	8.1	125	Green

4 AWG (427x30) 25.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-4G-01	150	0.375	9.5	182	Black
WC-4G-03	150	0.375	9.5	182	Red
WC-4G-04	150	0.375	9.5	182	Green
WC-4G-05	150	0.375	9.5	182	Yellow
WC-4G-07	150	0.375	9.5	182	Blue

2 AWG (651x30) 35.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-2G-01	205	0.440	11.1	271	Black
WC-2G-03	205	0.440	11.1	271	Red
WC-2G-04	205	0.440	11.1	271	Green
WC-2G-05	205	0.440	11.1	271	Yellow
WC-2G-07	205	0.440	11.1	271	Blue

1 AWG (840x30) 50.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-1G-01	240	0.505	12.9	380	Black
WC-1G-03	240	0.505	12.9	380	Red
WC-1G-04	240	0.505	12.9	380	Green
WC-1G-05	240	0.505	12.9	380	Yellow
WC-1G-07	240	0.505	12.9	380	Blue

1/0 AWG (1044x30) 50.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-1/0-01	285	0.570	12.8	444	Black
WC-1/0-03	285	0.570	12.8	444	Red
WC-1/0-04	285	0.570	12.8	444	Green
WC-1/0-05	285	0.570	12.8	444	Yellow
WC-1/0-07	285	0.570	12.8	444	Blue

2/0 AWG (1308x30) 70.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-2/0-01	325	0.605	15.4	535	Black
WC-2/0-03	325	0.605	15.4	535	Red
WC-2/0-04	325	0.605	15.4	535	Green
WC-2/0-05	325	0.605	15.4	535	Yellow
WC-2/0-07	325	0.605	15.4	535	Blue

3/0 AWG (1653x30) 95.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-3/0-01	380	0.670	17.0	667	Black
WC-3/0-03	380	0.670	17.0	667	Red
WC-3/0-04	380	0.670	17.0	667	Green

4/0 AWG (2071x30) 120.00mm²

part no.	Amps	cable Ø (in / mm)		lbs/1,000ft	ins. color
WC-4/0-01	440	0.720	18.3	809	Black
WC-4/0-03	440	0.720	18.3	809	Red
WC-4/0-04	440	0.720	18.3	809	Green
WC-4/0-07	440	0.720	18.3	809	Blue

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