

Xtra-Guard® Performance Cable





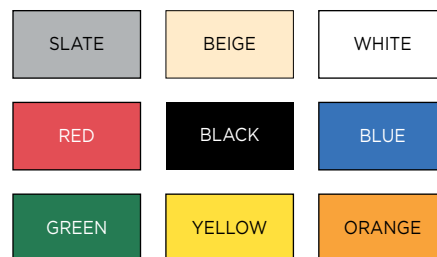
Features

- The preferred outdoor cable for advanced temperature performance
- Temperature range from -50°C to +125°C
- High-performance TPE insulation and jacket offering 3x the low-temperature flexibility of conventional PVC
- Solvent and water resistant
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® Foil + Braid
- Outstanding ultraviolet light stability in all jacket colors
- Nylon ripcord for easy jacket stripping
- Approved by the US Mine Safety and Health Administration and The Pennsylvania Department of Environmental Protection

- UL Types TC, PLTC, and WTTC
- CSA AWM I A/B II A/B FT1
- Passes UL 1685 Vertical Tray Flame Test

Applications

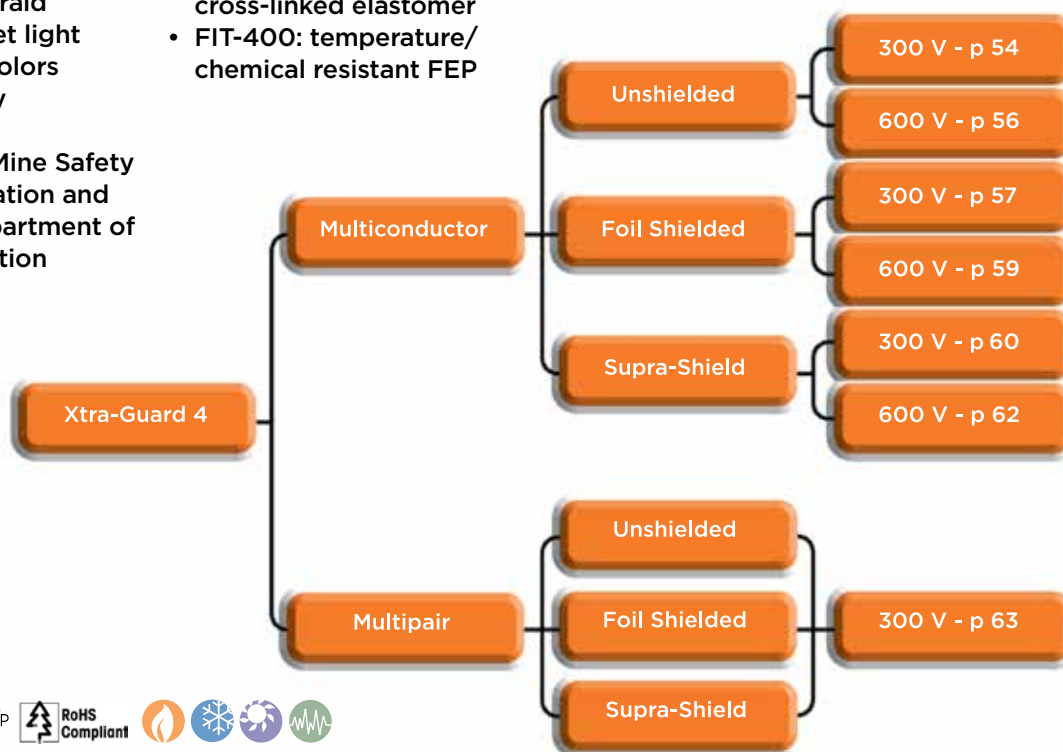
- Wood, paper, pulp, plant operations
- Mining instruments and controls
- Mass transit systems
- Military electronic applications
- Food and beverage plants
- Petrochemical process controls
- Arctic pipeline controls



Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification, for safety reasons, and for matching the color of your system.

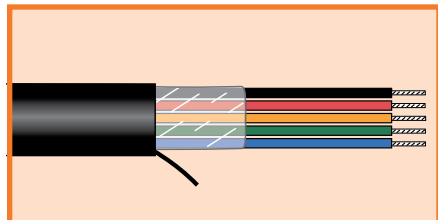
FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Unshielded, Multiconductor



UL AWM 20237
UL PLTC*
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 & 20 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

24 AWG (0.23 mm²)*

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45012	2	0.200	5.08	0.042	1.07
45013	3	0.209	5.31	0.042	1.07
45014	4	0.224	5.69	0.042	1.07
45016	6	0.257	6.53	0.042	1.07
45018	8	0.275	6.99	0.042	1.07
45020	10	0.312	7.92	0.042	1.07
45020/15	15	0.347	8.81	0.042	1.07
45020/20	20	0.383	9.73	0.042	1.07
45020/25	25	0.424	10.77	0.042	1.07

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45002	2	0.218	5.54	0.045	1.14
45003	3	0.228	5.79	0.045	1.14
45004	4	0.244	6.20	0.045	1.14
45006	6	0.281	7.14	0.045	1.14
45008	8	0.301	7.65	0.045	1.14
45010	10	0.342	8.69	0.045	1.14
45010/15	15	0.380	9.65	0.045	1.14
45010/20	20	0.441	11.20	0.055	1.40
45010/25	25	0.486	12.34	0.055	1.40

20 AWG (0.56 mm²)

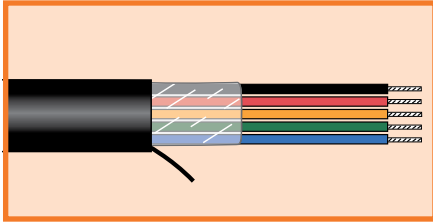
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45052	2	0.234	5.94	0.045	1.14
45053	3	0.245	6.22	0.045	1.14
45054	4	0.264	6.71	0.045	1.14
45056	6	0.306	7.77	0.045	1.14
45058	8	0.328	8.33	0.045	1.14
45060	10	0.374	9.50	0.045	1.14
45060/15	15	0.437	11.10	0.055	1.40
45060/20	20	0.483	12.27	0.055	1.40
45060/25	25	0.534	13.56	0.055	1.40



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300 V Unshielded, Multiconductor



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MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45062	2	0.252	6.40	0.045	1.14
45062/1*	2	0.252	6.40	0.045	1.14
45063	3	0.264	6.71	0.045	1.14
45063/1*	3	0.264	6.71	0.045	1.14
45064	4	0.285	7.24	0.045	1.14
45066	6	0.333	8.46	0.045	1.14
45068	8	0.358	9.09	0.045	1.14
45070	10	0.430	10.92	0.055	1.40
45070/15	15	0.479	12.17	0.055	1.40
45070/20	20	0.530	13.46	0.055	1.40
45070/25	25	0.588	14.94	0.055	1.40

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45072	2	0.276	7.01	0.045	1.14
45072/1*	2	0.276	7.01	0.045	1.14
45073	3	0.290	7.37	0.045	1.14
45073/1*	3	0.290	7.37	0.045	1.14
45074	4	0.314	7.98	0.045	1.14
45076	6	0.369	9.37	0.045	1.14
45078	8	0.418	10.62	0.055	1.40
45080	10	0.478	12.14	0.055	1.40
45080/15	15	0.534	13.56	0.055	1.40
45080/20	20	0.593	15.06	0.055	1.40
45080/25	25	0.680	17.27	0.055	1.40

*Conductors color-coded per international standards: brown, blue, green/yellow.

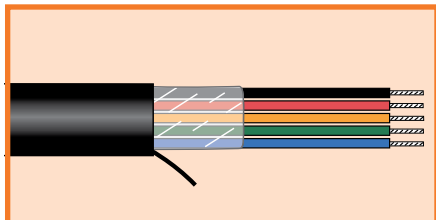


Alpha Wire | www.alphawire.com | 1-800-52 ALPHA

Specifications subject to change. For complete specifications and availability, visit www.alphawire.com.

Xtra-Guard® 4

Advanced High/Low-Temperature Performance
600 V Unshielded, Multiconductor



UL AWM 20238
UL TC, WTTTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart E
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45422	2	0.336	8.53	0.055	1.40
45423	3	0.353	8.97	0.055	1.40
45424	4	0.383	9.73	0.055	1.40
45425	5	0.416	10.57	0.055	1.40
45427	7	0.450	11.43	0.055	1.40
45429	9	0.519	13.18	0.055	1.40

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45432	2	0.360	9.14	0.055	1.40
45433	3	0.379	9.63	0.055	1.40
45434	4	0.412	10.46	0.055	1.40
45435	5	0.448	11.38	0.055	1.40
45437	7	0.486	12.34	0.055	1.40
45439	9	0.583	14.81	0.065	1.65

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

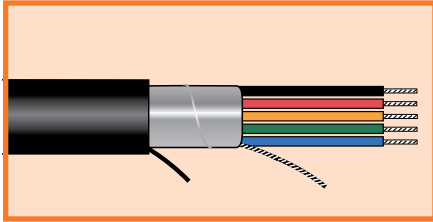
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45442*	2	0.390	9.91	0.055	1.40
45443*	3	0.412	10.46	0.055	1.40
45444*	4	0.448	11.38	0.055	1.40
45445*	5	0.489	12.42	0.055	1.40
45447*	7	0.551	14.00	0.065	1.65

* Not MSHA



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Foil Shielded, Multiconductor



UL AWM 20237
UL PLTC*
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 & 20 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45092	2	0.204	5.18	0.042	1.07
45093	3	0.213	5.41	0.042	1.07
45094	4	0.228	5.79	0.042	1.07
45096	6	0.261	6.63	0.042	1.07
45098	8	0.279	7.09	0.042	1.07
45100	10	0.316	8.03	0.042	1.07
45100/15	15	0.351	8.92	0.042	1.07
45100/20	20	0.387	9.83	0.042	1.07
45100/25	25	0.428	10.87	0.042	1.07

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45192	2	0.222	5.64	0.045	1.14
45193	3	0.232	5.89	0.045	1.14
45194	4	0.248	6.30	0.045	1.14
45196	6	0.285	7.24	0.045	1.14
45198	8	0.305	7.75	0.045	1.14
45199/10	10	0.346	8.79	0.045	1.14
45199/15	15	0.404	10.26	0.055	1.40
45199/20	20	0.445	11.30	0.055	1.40
45199/25	25	0.490	12.45	0.055	1.40

20 AWG (0.56 mm²)

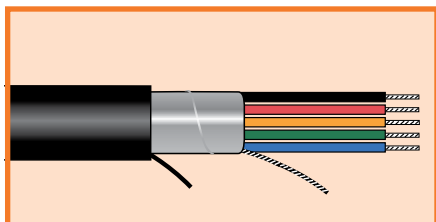
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45462	2	0.238	6.05	0.045	1.14
45463	3	0.249	6.32	0.045	1.14
45464	4	0.268	6.81	0.045	1.14
45466	6	0.310	7.87	0.045	1.14
45468	8	0.332	8.43	0.045	1.14
45470	10	0.378	9.60	0.045	1.14
45470/15	15	0.441	11.20	0.055	1.40
45470/20	20	0.487	12.37	0.055	1.40
45470/25	25	0.538	13.67	0.055	1.40
45470/40	40	0.650	16.51	0.065	1.65



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Foil Shielded, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45382	2	0.256	6.50	0.045	1.14
45382/1*	2	0.256	6.50	0.045	1.14
45383	3	0.268	6.81	0.045	1.14
45383/1*	3	0.268	6.81	0.045	1.14
45384	4	0.289	7.34	0.045	1.14
45386	6	0.337	8.56	0.045	1.14
45388	8	0.362	9.19	0.045	1.14
45390	10	0.434	11.02	0.055	1.40
45390/15	15	0.483	12.27	0.055	1.40
45390/20	20	0.534	13.56	0.055	1.40
45390/25	25	0.592	15.04	0.055	1.40
45390/30	30	0.645	16.38	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45362	2	0.280	7.11	0.045	1.14
45362/1*	2	0.280	7.11	0.045	1.14
45363	3	0.294	7.47	0.045	1.14
45363/1*	3	0.294	7.47	0.045	1.14
45364	4	0.318	8.08	0.045	1.14
45366	6	0.373	9.47	0.045	1.14
45368	8	0.422	10.72	0.045	1.14
45370	10	0.482	12.24	0.055	1.40
45370/15	15	0.538	13.67	0.055	1.40
45370/20	20	0.597	15.16	0.055	1.40
45370/25	25	0.684	17.37	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

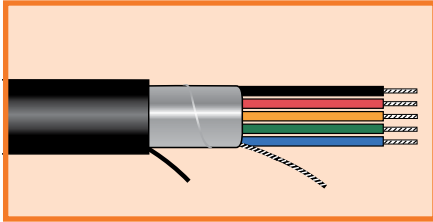


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Xtra-Guard® 4

Advanced High/Low-Temperature Performance
600 V Foil Shielded, Multiconductor



UL AWM 20238
UL TC, WTTT
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart E
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45430/2	2	0.340	8.64	0.055	1.40
45430/3	3	0.357	9.07	0.055	1.40
45430/4	4	0.387	9.83	0.055	1.40
45430/5	5	0.420	10.67	0.055	1.40
45430/7	7	0.454	11.53	0.055	1.40
45430/9	9	0.543	13.79	0.055	1.40
45430/12	12	0.599	15.21	0.065	1.65

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45440/2	2	0.364	9.25	0.055	1.40
45440/3	3	0.383	9.73	0.055	1.40
45440/5	5	0.452	11.48	0.055	1.40
45440/7	7	0.490	12.45	0.055	1.40
45440/9	9	0.587	14.91	0.065	1.65
45440/12	12	0.649	16.48	0.065	1.65

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

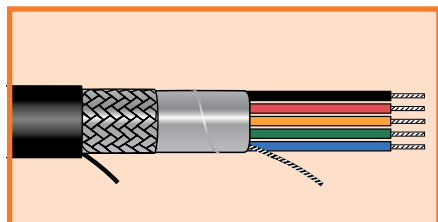
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45450/2*	2	0.394	10.01	0.055	1.40
45450/3*	3	0.416	10.57	0.055	1.40
45450/5*	5	0.493	12.52	0.055	1.40
45450/7*	7	0.555	14.10	0.065	1.65
45450/15*	15	0.775	19.69	0.065	1.65

* Not MSHA



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 & 20 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45112	2	0.228	5.79	0.042	1.07
45113	3	0.237	6.02	0.042	1.07
45114	4	0.252	6.40	0.042	1.07
45116	6	0.285	7.24	0.042	1.07
45118	8	0.303	7.70	0.042	1.07
45120	10	0.340	8.64	0.042	1.07
45120/15	15	0.375	9.53	0.042	1.07
45120/20	20	0.411	10.44	0.042	1.07
45120/25	25	0.452	11.48	0.042	1.07

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45102	2	0.246	6.25	0.045	1.14
45103	3	0.256	6.50	0.045	1.14
45104	4	0.272	6.91	0.045	1.14
45106	6	0.309	7.85	0.045	1.14
45108	8	0.329	8.36	0.045	1.14
45110	10	0.370	9.40	0.045	1.14
45110/15	15	0.428	10.87	0.055	1.40
45110/20	20	0.469	11.91	0.055	1.40
45110/25	25	0.514	13.06	0.055	1.40

20 AWG (0.56 mm²)

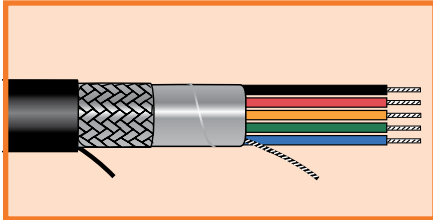
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45152	2	0.262	6.65	0.045	1.14
45153	3	0.273	6.93	0.045	1.14
45154	4	0.292	7.42	0.045	1.14
45156	6	0.334	8.48	0.045	1.14
45158	8	.0356	9.04	0.045	1.14
45160	10	0.422	10.72	0.055	1.40
45160/15	15	0.465	11.81	0.055	1.40
45160/20	20	0.511	12.98	0.055	1.40
45160/25	25	0.562	14.27	0.055	1.40



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

18 AWG (0.81 mm²)					
Stranding: 16/30 (16 x 0.25 mm) Insulation thickness: 0.016 (0.41 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45162	2	0.280	7.11	0.045	1.14
45162/1*	2	0.280	7.11	0.045	1.14
45163	3	0.292	7.42	0.045	1.14
45163/1*	3	0.292	7.42	0.045	1.14
45164	4	0.313	7.95	0.045	1.14
45166	6	0.361	9.17	0.045	1.14
45168	8	0.406	10.31	0.045	1.14
45170	10	0.458	11.63	0.055	1.40
45170/15	15	0.507	12.88	0.055	1.40
45170/20	20	0.558	14.17	0.055	1.40
45170/25	25	0.636	16.15	0.065	1.65
45170/30	30	0.675	17.15	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

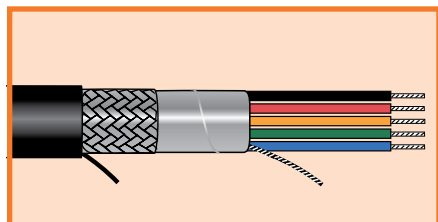
16 AWG (1.23 mm²)					
Stranding: 19/0.0117 (19 x 0.29 mm) Insulation thickness: 0.016 (0.41 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45172	2	0.304	7.72	0.045	1.14
45172/1*	2	0.304	7.72	0.045	1.14
45173	3	0.318	8.08	0.045	1.14
45173/1*	3	0.318	8.08	0.045	1.14
45174	4	0.342	8.69	0.045	1.14
45176	6	0.417	10.59	0.055	1.40
45178	8	0.446	11.33	0.055	1.40
45180	10	0.506	12.85	0.055	1.40
45180/15	15	0.562	14.27	0.055	1.40
45180/20	20	0.641	16.28	0.065	1.65
45180/25	25	0.714	18.14	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
600 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20238
UL TC, WTTTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart E
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45522	2	0.364	9.25	0.055	1.40
45523	3	0.381	9.68	0.055	1.40
45524	4	0.411	10.44	0.055	1.40
45525	5	0.444	11.28	0.055	1.40
45527	7	0.478	12.14	0.055	1.40
45529	9	0.567	14.40	0.065	1.65
45529/12	12	0.623	15.82	0.065	1.65

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45532	2	0.388	9.86	0.055	1.40
45533	3	0.407	10.34	0.055	1.40
45534	4	0.440	11.18	0.055	1.40
45535	5	0.476	12.09	0.055	1.40
45537	7	0.514	13.06	0.055	1.40
45539	9	0.611	15.52	0.065	1.65
45539/12	12	0.679	17.25	0.065	1.65

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

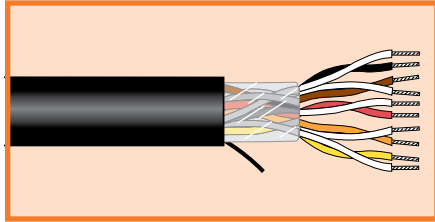
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45542*	2	0.418	10.62	0.055	1.40
45543*	3	0.440	11.18	0.055	1.40
45544*	4	0.476	12.09	0.055	1.40
45545*	5	0.517	13.13	0.055	1.40
45547*	7	0.579	14.71	0.065	1.65
45549*	9	0.672	17.07	0.065	1.65

* Not MSHA



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Unshielded, Multipair



18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45031	1	0.252	6.40	0.045	1.14
45032	2	0.353	8.97	0.045	1.14

UL AWM 20237

UL PLTC

CSA AWM I/II A/B FT1

MSHA P-07-KA070017-MSHA

NEC Class 1, Div 2

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart B
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

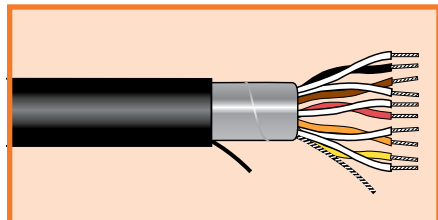


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Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Foil Shield, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart B
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45491	1	0.204	5.18	0.042	1.07
45492	2	0.276	7.01	0.042	1.07
45493	3	0.290	7.37	0.042	1.07
45494	4	0.314	7.98	0.042	1.07
45495	5	0.341	8.66	0.042	1.07
45496	6	0.370	9.40	0.042	1.07
45499	9	0.428	10.87	0.042	1.07
45499/11	11	0.459	11.66	0.042	1.07
45499/15	15	0.516	13.11	0.042	1.07
45499/27	27	0.679	17.25	0.053	1.35

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

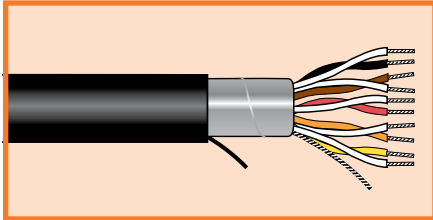
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45481	1	0.222	5.64	0.045	1.14
45482	2	0.301	7.65	0.045	1.14
45483	3	0.317	8.05	0.045	1.14
45484	4	0.344	8.74	0.045	1.14
45485	5	0.374	9.50	0.045	1.14
45486	6	0.425	10.80	0.055	1.40
45489	9	0.489	12.42	0.055	1.40
45489/11	11	0.525	13.34	0.055	1.40
45489/15	15	0.588	14.94	0.055	1.40



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Foil Shield, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart B
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45451	1	0.238	6.05	0.045	1.14
45452	2	0.328	8.33	0.045	1.14
45453	3	0.346	8.79	0.045	1.14
45454	4	0.376	9.55	0.045	1.14
45455	5	0.430	10.92	0.055	1.40
45456	6	0.465	11.81	0.055	1.40
45459	9	0.537	13.64	0.055	1.40
45459/11	11	0.577	14.66	0.055	1.40
45459/15	15	0.668	16.97	0.065	1.65
45459/19	19	0.713	18.11	0.065	1.65
45459/27	27	0.885	22.48	0.065	1.65

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45371	1	0.256	6.50	0.045	1.14
45372	2	0.357	9.07	0.045	1.14
45373	3	0.378	9.60	0.045	1.14
45374	4	0.432	10.97	0.055	1.40
45375	5	0.470	11.94	0.055	1.40
45376	6	0.510	12.95	0.055	1.40
45379	9	0.591	15.01	0.055	1.40
45379/11	11	0.656	16.66	0.065	1.65
45379/15	15	0.736	18.69	0.065	1.65
45379/19	19	0.787	19.99	0.065	1.65

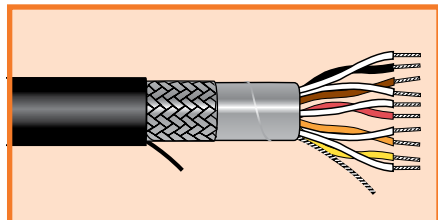


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Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20237

UL PLTC

CSA AWM I/II A/B FT1

MSHA P-07-KA070017-MSHA

NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart B
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45271	1	0.228	5.79	0.042	1.07
45272	2	0.300	7.62	0.042	1.07
45273	3	0.314	7.98	0.042	1.07
45274	4	0.338	8.59	0.042	1.07
45275	5	0.365	9.27	0.042	1.07
45276	6	0.394	10.01	0.042	1.07
45279	9	0.452	11.48	0.042	1.07
45279/11	11	0.483	12.27	0.042	1.07
45279/15	15	0.540	13.72	0.042	1.07
45279/19	19	0.598	15.19	0.053	1.35

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

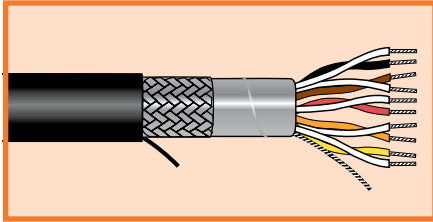
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45121	1	0.246	6.25	0.045	1.14
45122	2	0.325	8.26	0.045	1.14
45123	3	0.341	8.66	0.045	1.14
45124	4	0.368	9.35	0.045	1.14
45125	5	0.418	10.62	0.055	1.40
45126	6	0.449	11.40	0.055	1.40
45129	9	0.513	13.03	0.055	1.40
45129/11	11	0.549	13.94	0.055	1.40
45129/15	15	0.632	16.05	0.065	1.65
45129/19	19	0.677	17.20	0.065	1.65



Xtra-Guard® 4

Advanced High/Low-Temperature Performance
300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- -50°C to +125°C

Conductor Color Coding

- Chart B
- Jacket Colors: Nine available (black standard)

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1000 ft (305 m) minimum

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45291	1	0.262	6.65	0.045	1.14
45292	2	0.352	8.94	0.045	1.14
45293	3	0.370	9.40	0.045	1.14
45294	4	0.420	10.67	0.055	1.40
45295	5	0.454	11.53	0.055	1.40
45296	6	0.489	12.42	0.055	1.40
45299	9	0.561	14.25	0.055	1.40
45299/11	11	0.621	15.77	0.065	1.65
45299/15	15	0.698	17.73	0.065	1.65

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket thickness	
		Inch	mm	Inch	mm
45131	1	0.280	7.11	0.045	1.14
45132	2	0.381	9.68	0.045	1.14
45133	3	0.422	10.72	0.055	1.40
45134	4	0.456	11.58	0.055	1.40
45135	5	0.494	12.55	0.055	1.40
45136	6	0.534	13.56	0.055	1.40
45139	9	0.635	16.13	0.065	1.65
45139/11	11	0.686	17.42	0.065	1.65
45139/15	15	0.766	19.46	0.065	1.65



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Conductor Color Coding



Multipair Cables

Chart A

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +Red	14	Green + Blue	27	Brown + Yellow
2	Black + White	15	Green + White	28	Violet + Red
3	Black + Green	16	Green + Brown	29	Violet + White
4	Black + Blue	17	Green + Orange	30	Violet + Green
5	Black + Brown	18	Green + Yellow	31	Violet + Blue
6	Black + Yellow	19	White + Blue	32	Violet + Brown
7	Black + Orange	20	White + Brown	33	Violet + Yellow
8	Red + Green	21	White + Orange	34	Violet + Orange
9	Red + White	22	White + Yellow	35	Violet + Slate
10	Red + Blue	23	Blue + Brown	36	Violet + Black
11	Red + Yellow	24	Blue + Orange	37	Slate + Red
12	Red + Brown	25	Blue + Yellow	38	Slate + White
13	Red + Orange	26	Brown + Orange	39	Slate + Green

Chart B

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White +Black	35	Orange +Slate	69	White/Red +Green
2	White +Brown	36	Yellow +Green	70	White/Red +Blue
3	White +Red	37	Yellow +Blue	71	White/Red +Violet
4	White +Orange	38	Yellow +Violet	72	White/Red +Slate
5	White +Yellow	39	Yellow +Slate	73	White/Orange +Black
6	White +Green	40	Green +Blue	74	White/Orange +Brown
7	White +Blue	41	Green +Violet	75	White/Orange +Red
8	White +Violet	42	Green +Slate	76	White/Orange +Orange
9	White +Slate	43	Blue +Violet	77	White/Orange +Yellow
10	Black +Brown	44	Blue +Slate	78	White/Orange +Green
11	Black +Red	45	Violet +Slate	79	White/Orange +Blue
12	Black +Orange	46	White/Black +Black	80	White/Orange +Violet
13	Black +Yellow	47	White/Black +Brown	81	White/Orange +Slate
14	Black +Green	48	White/Black +Red	82	White/Yellow +Black
15	Black +Blue	49	White/Black +Orange	83	White/Yellow +Brown
16	Black +Violet	50	White/Black +Yellow	84	White/Yellow +Red
17	Black +Slate	51	White/Black +Green	85	White/Yellow +Orange
18	Brown +Red	52	White/Black +Blue	86	White/Yellow +Yellow
19	Brown +Orange	53	White/Black +Violet	87	White/Yellow +Green
20	Brown +Yellow	54	White/Black +Slate	88	White/Yellow +Blue
21	Brown +Green	55	White/Brown +Black	89	White/Yellow +Violet
22	Brown +Blue	56	White/Brown +Brown	90	White/Yellow +Slate
23	Brown +Violet	57	White/Brown +Red	91	White/Green +Black
24	Brown +Slate	58	White/Brown +Orange	92	White/Green +Brown
25	Red +Orange	59	White/Brown +Yellow	93	White/Green +Red
26	Red +Yellow	60	White/Brown +Green	94	White/Green +Orange
27	Red +Green	61	White/Brown +Blue	95	White/Green +Yellow
28	Red +Blue	62	White/Brown +Violet	96	White/Green +Green
29	Red +Violet	63	White/Brown +Slate	97	White/Green +Blue
30	Red +Slate	64	White/Red +Black	98	White/Green +Violet
31	Orange +Yellow	65	White/Red +Brown	99	White/Green +Slate
32	Orange +Green	66	White/Red +Red	100	White/Blue +Black
33	Orange +Blue	67	White/Red +Orange	101	White/Blue +Brown
34	Orange +Violet	68	White/Red +Yellow	102	White/Blue +Red