

XLP Instrumentation 600 Volt 90°C E-2

18 - 16 AWG • 600 Volts • 90°C Wet or Dry

Shielded Triads with an Overall Shield 18 AWG						
PART NUMBER	NO. OF TRIADS	NOMINAL JACKET THICK. (IN)	NOMINAL OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)	MINIMUM BEND RADIUS (IN)	MAXIMUM PULL TENSION (POUNDS)
02-1639	2	.060	.61	150	7.4	94
02-1641	3	.060	.68	210	7.8	122
01-1643	4	.060	.71	238	8.6	188
02-1645	6	.060	.76	295	9.2	260
02-1647	8	.080	.87	440	10.5	376
02-1649	12	.080	1.05	620	12.6	564
02-1651	16	.080	1.17	790	14.1	752
02-1653	24	.080	1.44	1136	17.3	1128

Shielded Triads with an Overall Shield 16 AWG						
PART NUMBER	NO. OF TRIADS	NOMINAL JACKET THICK. (IN)	NOMINAL OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)	MINIMUM BEND RADIUS (IN)	MAXIMUM PULL TENSION (POUNDS)
02-1655	2	.060	.66	182	8.0	150
02-1657	3	.060	.72	205	8.4	188
02-1659	4	.060	.77	294	9.3	299
02-1661	6	.060	.88	352	10.1	418
02-1663	8	.080	.95	549	11.4	598
02-1665	12	.080	1.15	780	13.8	898
02-1667	16	.080	1.28	999	15.4	1197
02-1669	24	.080	1.58	1444	19.0	1795

SCOPE:

This specification covers the minimum construction requirements for triad cable (UL) listed Type TC consisting of Class B stranded annealed tinned copper, insulated with cross-linked polyethylene, cabled together and jacketed overall with a chlorinated polyethylene (CPE) jacket.

APPLICATIONS:

UL listed and OSHA acceptable. Recognized for use in Class 1 or 2, Division 2 hazardous locations. Suitable for use in cable trays, raceways, ducts and conduits, direct burial or supported by a messenger for use at temperature ratings not exceeding 90°C in wet or dry locations and outdoors where a sunlight resistant rating is required. These cables shall conform to (UL) Type TC Power and Control Tray Cables and National Electrical Code Articles 336, 392, 500 and 501. These cables pass the IEEE-383 70,000 BTU flame test, the IEEE 1202 flame test and the ICEA T-29-520 210,000 BTU flame test. Designed for control, power, lighting, telemetry, signals and relay or traffic control.

CONSTRUCTION:

CONDUCTORS

Class B (7 wires) annealed tinned copper.

INSULATION:

A chemically cross-linked polyethylene (XLP) shall be applied concentrically over each conductor and shall conform to (UL) Standard 44 for Type XHHW-2. The minimum average wall thickness is 30 mils.

DRAIN WIRE:

Class B (7 wires) annealed tinned copper.

OVERALL JACKET:

A black, flame, moisture, oil and sunlight resistant chlorinated polyethylene (CPE) jacket meeting the requirements of UL-1277 shall be applied concentrically overall. The physical properties of the jacket comply with Table 50.28 of UL-1581. A high strength nylon yarn rip cord shall be placed under the jacket to facilitate stripping of the jacket.

COLOR CODING:

Method 1, Table E-2 using solid colors with longitudinal or spiral stripes. Refer to Color Code Conversion Chart 2 on page Z.15

TESTING:

These cables shall be tested physically and electrically in accordance with procedures as outlined by Underwriters' Laboratories, Inc. Standard 1277 for Type TC Power and Control Tray Cables.

SHIELDING:

Each triad has an individual shield consisting of a 1.35 mil thickness aluminum/polyester tape with a drain wire, plus a 1.35 mil thickness aluminum/polyester tape shield and drain wire overall (100% coverage).

- » Information on this sheet is subject to change without notice.
- » All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.
- > Maximum Pull Tension is based on using a pulling eye.
- > Minimum Bend Radius is permanent.