

XLP Instrumentation 600 Volt 90°C E-1

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

Shielded Pairs with an Overall Shield 18 AWG						
PART NUMBER	NO. OF PAIRS	NOMINAL JACKET THICK. (IN)	NOMINAL OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)	MINIMUM BEND RADIUS (IN)	MAXIMUM PULL TENSION (POUNDS)
02-1455	2	.060	.57	124	6.9	68
02-1457	3	.060	.58	132	7.2	96
02-1459	4	.060	.62	183	7.5	136
02-1461	6	.060	.73	228	8.8	156
02-1463	8	.060	.75	313	9.0	272
02-1465	12	.080	.95	474	11.4	408
02-1467	16	.080	1.05	597	12.6	544
02-1469	24	.080	1.29	850	15.5	816
02-1471	36	.080	1.47	1200	17.7	1224
02-1473	50	.110	1.85	1742	22.2	1700

Shielded Pairs with an Overall Shield 16 AWG						
PART NUMBER	NO. OF PAIRS	NOMINAL JACKET THICK. (IN)	NOMINAL OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)	MINIMUM BEND RADIUS (IN)	MAXIMUM PULL TENSION (POUNDS)
02-1475	2	.060	.62	147	7.5	108
02-1477	3	.060	.64	171	7.8	124
02-1479	4	.060	.67	225	8.1	217
02-1481	6	.060	.80	293	9.6	247
02-1483	8	.060	.82	382	9.9	434
02-1485	12	.080	1.03	588	12.4	650
02-1487	16	.080	1.14	746	13.7	867
02-1489	24	.080	1.41	1072	17.0	1301
02-1491	36	.080	1.61	1523	19.4	1951
02-1493	50	.110	2.03	1962	24.4	2710

SCOPE:

This specification covers the minimum construction requirements for paired cables (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-1 using solid colors with stripes. Refer to Color Code Conversion Chart 3 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 pair 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.

