

AIRGUARD®XLPE/Polymeric Armor/PVC, Instrumentation
UL Type TC-ER-HL 600V - Marine Rated**Product Construction:****Conductor:**

- 18 AWG and 16 AWG annealed bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Individual and Overall Shielded Pairs:

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with 20 AWG stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire as the same size of insulated conductor

Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Jacket:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Applications:

- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330

Features:

- Rated at 75°C wet or 90°C dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
- Sunlight- and weather-resistant

Features (cont'd):

- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance

Compliances:**Industry Compliances:**

- NEC Type XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File # E60544/E83287
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

PRODUCT NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)
Instrumentation – Low Voltage 600 V – IS/OS Cables – Marine Rated					
10250.01801001	1/PR #18	30	45	0.58	160
10250.01801002	1/TR #18	30	45	0.60	179
10250.01802001	2/PR #18	30	60	0.77	274
10250.01804001	4/PR #18	30	80	0.89	375
10250.01808001	8/PR #18	30	80	1.07	557
10250.01601001	1/PR #16	30	45	0.50	177
10250.01601002	1/TR #16	30	60	0.62	199
10250.01602001	2/PR #16	30	60	0.76	299
10250.01604001	4/PR #16	30	60	0.92	412
10250.01604002	4/TR #16	30	80	1.04	513
10250.01608001	8/PR #16	30	80	1.10	632
10250.01612001	12/PR #16	30	80	1.28	825
10250.01612002	12/TR #16	30	80	1.51	1097
10250.01624001	24/PR #16	30	80	1.68	1395

The above dimensions are approximate and subject to normal manufacturing tolerances.