

AIRGUARD®

PVC/Nylon/Polymeric Armor/PVC, Instrumentation  
UL Type TC-ER-HL 600V - Onshore Rated

Product Construction:

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

- Insulation:
- Flame-retardant Polyvinyl Chloride (PVC) with Polyamide (nylon)
  - Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alphanumerically for easy identification

- Individual and Overall Shield:
- 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:
- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)



- 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
  - 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 TFN conductors
  - UL 1277 Type TC-ER-HL, UL File # E57179
  - ICEA S-73-532/NEMA WCS7
- 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 nonreturnable 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)
		Avg PVC	Min Nylon			
Instrumentation – Low Voltage 600 V – IS/OS Cables – Onshore Rated						
10200.01801001	1/PR #18	15	4	45	0.51	132
10200.01801002	1/TR #18	15	4	45	0.52	147
10200.01802001	2/PR #18	15	4	60	0.66	229
10200.01804001	4/PR #18	15	4	60	0.73	294
10200.01808001	8/PR #18	15	4	80	0.91	468
10200.01601001	1/PR #16	15	4	45	0.53	144
10200.01601002	1/TR #16	15	4	60	0.57	178
10200.01602001	2/PR #16	15	4	60	0.72	270
10200.01604001	4/PR #16	15	4	60	0.79	343
10200.01604002	4/TR #16	15	4	80	0.93	456
10200.01608001	8/PR #16	15	4	80	0.99	557
10200.01612001	12/PR #16	15	4	80	1.15	725
10200.01612002	12/TR #16	15	4	80	1.27	907
10200.01624001	24/PR #16	15	4	80	1.45	1266
10200.01636001	36/PR #16	15	4	110	1.79	1670

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