

INDUSTRIAL CABLES

SPEC 10400



AIRGUARD® VFD

XLPE/Polymeric Armor/PVC, Low-Voltage Power
UL Type TC-ER-HL 600V or UL Type TC-ER 1000V



Product Construction:

Conductor:

- 14 AWG thru 500 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, Table E-2 (does not include white or green)

Ground Conductor(s):

- Annealed stranded bare copper per ASTM B33
- Three (3) split annealed bare copper ground conductors

Shield:

- Overall annealed copper tape with a nom. overlap of 25%

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 90 °C wet or 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 exceeds 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 XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File # E60544/E83287
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202
- CSA FT4
- XHHW-2 inners VW-1

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 & Circuit Conductor Size (AWG)	Insulation Thickness (Mils)	Number & Ground Conductor Size (AWG)	Jacket Thickness (Mils)	Nominal Overall Cable O.D. (In)	Nominal Cable Weight O.D. (Lbs/Kft)	‡ Ampacity (Amps)
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VFD – Low Voltage – 3/C – 600 V/1000 V

10400.01403318	3/C #14	30	3 - #18	60	0.63	247	25
10400.01203316	3/C #12	30	3 - #16	60	0.67	297	30
10400.01003314	3/C #10	30	3 - #14	60	0.73	374	40
10400.00803314	3/C #8	45	3 - #14	80	0.89	542	55
10400.00603312	3/C #6	45	3 - #12	80	0.97	701	75
10400.00403312	3/C #4	45	3 - #12	80	1.09	960	95
10400.00203310	3/C #2	45	3 - #10	80	1.23	1309	130
10400.11003310	3/C #1/0	55	3 - #10	80	1.41	1872	170
10400.21003310	3/C #2/0	55	3 - #10	80	1.51	2273	195
10400.31003308	3/C #3/0	55	3 - #8	80	1.62	2766	225
10400.41003308	3/C #4/0	55	3 - #8	80	1.80	3398	260
10400.25003308	3/C 250	65	3 - #8	110	2.02	3903	290
10400.35003307	3/C 350	65	3 - #7	110	2.24	5220	350
10400.50003306	3/C 500	65	3 - #6	110	2.51	6940	430

‡ Per 2023 NEC Table 310.16 "Allowable Ampacities of Insulated Conductors Rated up to and including 2000 Volts, 60°C through 90°C (140°F through 194°F), Not More Than Three Current-Carrying Conductors"

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