



Low Voltage AIRGUARD® - Power | 600 Volt/1000 Volt

Part Number	Circuit Conductor		Insulation Thickness mils	Bare Grounding Conductor(s)		Jacket Thickness mils	Nominal Overall Cable O.D. inches	Nominal Cable Weight lbs/Mft	Minimum Bending Radius inches	Ampacity** amps	Gland Explosion Proof C1D1
	No.	AWG/kcmil		No.	AWG						
14-03AIRGUARD	3C	14	30	3	18	60	0.630	230	2.5	25	PWC-424BT03
14-04AIRGUARD	4C	14	30	1	14	60	0.690	263	2.7	20	PWC-424BT03
12-03AIRGUARD	3C	12	30	3	16	60	0.670	281	2.7	30	PWC-424BT03
12-04AIRGUARD	4C	12	30	1	12	60	0.730	320	2.9	24	PWC-424BT03
10-03AIRGUARD	3C	10	30	3	14	60	0.720	355	2.9	40	PWC-424BT03
10-04AIRGUARD	4C	10	30	1	10	60	0.790	408	3.2	32	PWC-424BT04
8-03AIRGUARD	3C	8	45	3	14	80	0.890	521	3.6	55	PWC-424BT04
8-04AIRGUARD	4C	8	45	1	10	80	0.970	603	3.9	44	-
6-03AIRGUARD	3C	6	45	3	12	80	0.960	675	3.9	75	PWC-424BT04
*6-04AIRGUARD	4C	6	45	1	8	80	1.060	782	4.4	60	-
*4-03AIRGUARD	3C	4	45	3	12	80	1.090	923	4.5	95	PWC-424BT15
*2-03AIRGUARD	3C	2	45	3	10	80	1.215	1264	5.0	130	PWC-424BT15
*2-04AIRGUARD	4C	2	45	1	6	80	1.310	1442	5.3	104	-
*1/0-03AIRGUARD	3C	1/0	55	3	10	80	1.420	1836	5.7	170	PWC-424BT06

All values are nominal and subject to correction

*Cables not marked "-HL" (per UL 2225, overall cable diameter must be 1.00 inch or less to be marked "-HL")

**Per 2014 NEC TABLE 310.15(B)(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"

Prysmian's Low Voltage AIRGUARD® Power Cables are primarily designed for applications in environments found in heavy industrial and offshore markets. Its rugged polymeric AIR BAG™ armor and chemical barrier protection package makes it the ideal cable choice for tough harsh environmental conditions. AIRGUARD provides the solution to the deficiencies often encountered with MC-HL cables including armor breakage encountered during installation and in applications requiring recurring bending after installation, as well as poor performance in areas of high vibration (e.g. motor connections). AIRGUARD also provides a safer alternative to MC-HL due to its "No Knife/No Saw" preparation. Installation cost is reduced as bulky, expensive metallic armor grounding glands are not required.

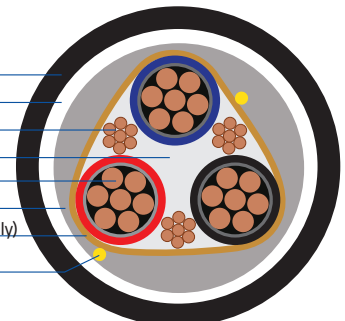
Low Voltage AIRGUARD has been designed to reduce installation costs in the field while improving the overall cable performance as compared to Type MC and MC-HL alternatives, which can often be costly, time consuming, and difficult to install.

Low Voltage AIRGUARD is rated for installations in cable tray for exposed runs (Type TC-ER), conduit, and direct burial. It significantly exceeds the stringent crush and impact resistance of UL 2225 for MC-HL cables and is permitted for use in Class I Division 1 and Zone 1 hazardous locations (TC-ER-HL) in accordance with National Electrical Code (2020) Sections 501.10(A)(2)(3) and 505.15(B)(i). Prysmian's patented AIRGUARD design affords far greater protection against water ingress and chemical attack than traditional MC Armored Cables. It also provides users the ease of installation of a tray cable while providing better mechanical and environmental protection than traditional metal clad cables.

SPECIFICATIONS

ASTM B3 & ASTM B8	Class B Soft Drawn Concentric Lay Stranded Bare Copper Conductors
S095-668 (NEMA WC70)	Cable Rating XHHW-2 Multiple Conductors
UL 44 (XHHW-2) 600V	Direct Buried Sunlight Resistant Oil Resistant
IEEE 1202/FT-4	Flame Retardant
IEEE 383	
UL 1277 TC-ER	Exposed Run Rating
NEC Article 336.10(7)	
UL 2226	TC-ER- HL
NEC Article 501.10(A)(2)(3)	TC-ER- HL Class I Division 1
NEC Article 505.15(B)(1)(i)	TC-ER-HL Class I Zone 1
CSA 22.2 No. 03	-40°C/ -35°C Cold Bend/Cold Impact
MSHA	Mine Safety & Health Administration
IEEE 1680	Marine Shipboard Cable Rating
ABS	American Bureau of Shipping Type Approval

Outer Sheath
AIRBAG™
Ground Wires
Fillers
Conductors
Extruded Filler Belt
EMI Shield (VFD Constructions Only)
Rip Cords





Low Voltage AIRGUARD® Features

- “No Knife? No Saw? No Problem!” installation makes terminating & splicing safer for electricians, and it greatly reduces the chances of damage to the conductors.
- Low Voltage AIRGUARD® provides users the ease of installation of a tray cable
- Superior crush and impact resistance as compared to MC-HL cables when tested in accordance with UL-2225
- Smaller minimum bending radius as compared to metal clad cables, as low as 4X cable diameter.
- Prysmian’s patented Polymeric AIR BAG™ armor eliminates the concern of kinking or breaking of corrugated aluminum armor during installation or subsequent bending in service that is often associated with Type MC-HL cables
- Reduced installation costs due to increased flexibility, ease of pulling, faster and safer cable preparation
- Use of less costly cable glands with significantly reduced installation time
- AIR BAG™ layer provides superior protection from the ingress of harmful fluids, hydrocarbon and chemicals
- Rated for installation in cable tray, for exposed runs (Type TC-ER), conduit, duct, direct burial, and aerial applications in Class I Division 2, Zone 2, and unclassified locations
- Permitted for use in Class I Division 1 and Zone 1 hazardous locations (Type TC-ER-HL) in accordance with National Electrical Code (2020) Sections 501.10(A)(2)(3) & 505.15(B)(i)
- Rated for -40°C/ -35°C cold bend/ cold impact per CSA 22.2 No. 03