



## Low Voltage AIRGUARD® - VFD | 600 Volt/1000 Volt

Part Number	Circuit Conductor		Insulation Thickness	Bare Grounding Conductor(s)		Jacket Thickness	Nominal Overall Cable O.D.	Nominal Cable Weight	Minimum Bending Radius	Ampacity**	Gland Explosion Proof C1D1
	No.	AWG/kcmil		No.	AWG					amps	
14-03VFDAG-OS	3C	14	30	3	18	60	0.630	247	3.9	25	PWC-424BT03
12-03VFDAG-OS	3C	12	30	3	16	60	0.670	297	4.2	30	PWC-424BT03
10-03VFDAG-OS	3C	10	30	3	14	60	0.725	374	4.5	40	PWC-424BT03
8-03VFDAG-OS	3C	8	45	3	14	80	0.890	542	5.5	55	PWC-424BT04
6-03VFDAG-OS	3C	6	45	3	12	80	0.970	701	5.9	75	PWC-424BT04
4-03VFDAG-OS	3C	4	45	3	12	80	1.090	960	6.7	95	PWC-424BT15
2-03VFDAG-OS	3C	2	45	3	10	80	1.225	1309	7.5	130	PWC-424BT15
1/0-03VFDAG-OS	3C	1/0	55	3	10	80	1.410	1872	8.6	170	PWC-424BT06
2/0-03VFDAG-OS	3C	2/0	55	3	10	80	1.510	2273	9.2	195	PWC-424BT06
3/0-03VFDAG-OS	3C	3/0	55	3	8	80	1.620	2766	9.9	225	-
4/0-03VFDAG-OS	3C	4/0	55	3	8	80	1.780	3398	10.9	260	PWC-424BT07
250-03VFDAG-OS	3C	250	65	3	8	110	2.020	3903	12.3	290	PWC-424BT07
350-03VFDAG-OS	3C	350	65	3	7	110	2.240	5220	13.6	350	PWC-424BT08
500-03VFDAG-OS	3C	500	65	3	6	110	2.510	6940	15.3	430	PWC-424BT09
750-03VFDAG-OS	3C	750	80	3	5	110	3.020	10518	22.0	535	-

All values are nominal and subject to correction

\*\*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"

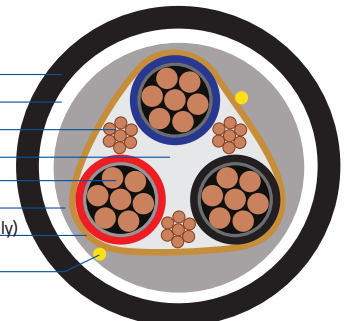
Low Voltage AIRGUARD is rated for installation in cable tray for exposed runs (Type TC-ER), conduit, and direct burial. It significantly exceeds the stringent crush and impact resistance of UL 2225 for MC-HL cables and is permitted for use in Class I Division 1 and Zone 1 hazardous locations (TC-ER-HL) 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.

Low Voltage AIRGUARD VFD cables are designed with three symmetrically placed ground wires and an aluminum or copper sheath to contain the generation of high frequency electromagnetic interference (EMI) imposed on the cable when installed in a circuit containing a Variable Frequency Drive. In the event of catastrophic cable damage, this shield, plus the 3 segmented ground wires, should contain any arcing and effectively conduct system fault current to ground.

### SPECIFICATIONS

- ASTM B3 & ASTM B8** Class B Soft Drawn Concentric Lay Stranded Bare Copper Conductors
- S095-658 (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 2225** 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 1580** 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