

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

| Part Number    | Circuit Conductor |           | Insulation Thickness<br>mils | Bare Grounding Conductor(s) |     | Jacket Thickness<br>mils | Nominal Overall Cable O.D.<br>inches | Nominal Cable Weight<br>lbs/Mft | Minimum Bending Radius<br>inches | Ampacity**<br>amps | Gland Explosion Proof C1D1 |
|----------------|-------------------|-----------|------------------------------|-----------------------------|-----|--------------------------|--------------------------------------|---------------------------------|----------------------------------|--------------------|----------------------------|
|                | No.               | AWG/kcmil |                              | No.                         | AWG |                          |                                      |                                 |                                  |                    |                            |
| 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                           | 5   | 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

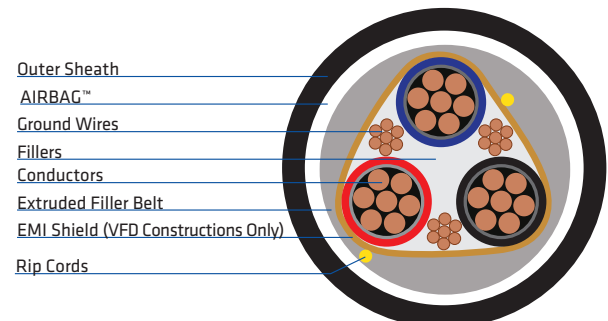
\*\*Per 2014 NEC TABLE 310.15(B)(16) "Allowable Ampacities of Insulated Conductors Rated up to and including 2000 Volts, 60°C through 90°C (140°F through 194°F), Not More Than Three Current-Carrying Conductors"

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





## 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