



Oil & Gas - Cable Solutions

Refineries & Petrochemical - Onshore

Low Voltage & Control Cables

ICEA S-95-658 (NEMA WC70)

Low Voltage AIRGUARD™ VFD 0,6/1 kV Cu/XLPE/AIRBAG™/PVC or LSZH

VFD Power and Control cables 0,6/1 kV. Flame retardant, polymeric armored, PVC or LSZH jacket.

APPLICATION

Low Voltage AIRGUARD™ VFD Power cables are designed for variable frequency drive applications in fixed installations in the harsh environments found in the heavy industrial markets. Its rugged polymeric AIRBAG™ armor and chemical barrier makes it the ideal choice for tough, harsh, environmental conditions. AIRGUARD™ cables provide the solution to the deficiencies often encountered with Type MC-HL cables including armor breakage during installation, applications requiring repeated flexing, and in areas with high vibration.

STANDARDS & APPROVALS

ASTM B3 & ASTM B8 (Conductors)
ICEA S-95-658 (NEMA WC70)
UL 44 (XHHW-2 600V)
CSA 22.2 No. 38
CSA 22.2 No. 230
CSA 22.2 No. 239 (Control Cables)
UL 1202/ FT4
CSA 22.2 No. 03 (Cold Bend/Cold Impact)
UL 2225 (TC-ER-HL Listed sizes only)
MSHA (Mine Safety & Health Administration)

DESIGN & CONSTRUCTION

- 1 CONDUCTOR**
Annealed Class B copper conductor according to ASTM B3 & ASTM B8 from #14 AWG through 750 kcmil multiconductor
- 2 INSULATION**
Cross linked polyethylene (XLPE) XHHW-2
- 3 GROUND WIRES**
Power cable conductors are assembled with three (3) bare copper ground wires per UL, ICEA, and ASTM
Control cable conductors are assembled with one (1) green insulated ground conductor
- 4 SHIELDING**
A bare copper tape is applied over the cabled assembly of phase conductors and ground wires to provide 100% coverage of the dielectric and provide for conduction of common mode currents.
- 5 FILLER**
Solid rubber filler
- 6 ARMORING/CHEMICAL BARRIER**
Prysmian patented AIRBAG™ polymeric armor/chemical barrier
- 7 OUTER SHEATH**
PVC meeting the requirements of CSA 22.2 No. 03 -40/-35 °C cold bend/cold impact or LSZH





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PERFORMANCES/RATINGS

FIRE
BEHAVIOUR



IEEE 1202/ FT4

CHEMICAL
RESISTANCE



EXCELLENT

IMPACTS



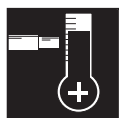
Exceptional and vastly superior
to any metallic armoured products

SMOKE DENSITY,
CORROSIVITY
AND TOXICITY



LOW EMISSION

MAX
OPERATING
TEMPERATURE



+90 °C

SHORT
CIRCUIT
TEMPERATURE



+250 °C

MIN.
INSTALLATION
TEMPERATURE



Cold bend / Cold impact
-40 °C / -35 °C

LEAD



Lead Free

QUALITY & TESTING

Prysmian has a built-in multi-step quality assurance program, covering the production process from cable design and raw material purchases to final inspection and testing documentation.

The ISO 9001 quality system of Prysmian Group (together with ISO 14001 and OHSAS 18001) has been assessed, approved and is currently audited by SGS.

This product information sheet is provided for reference only.

Please consult the factory or your representative to confirm all engineering information or refer to the related catalogues available in the local countries website.

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Prysmian
Group