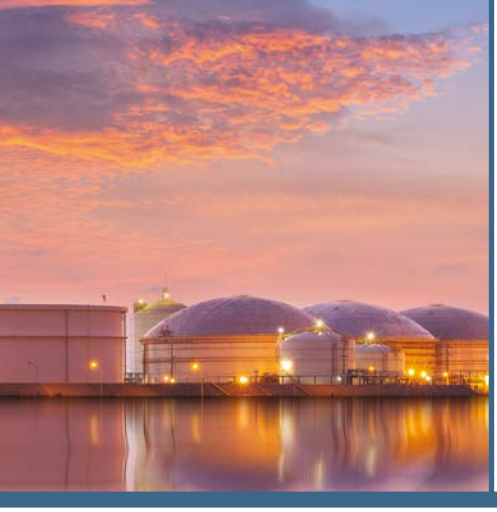


Oil & Gas - Cable Solutions

Pipelines & LNG - 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 choicefor tough, harsh, environmental conditions. AIRGUARD™ cables provide the solutution to the deficiencies often encounter 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.

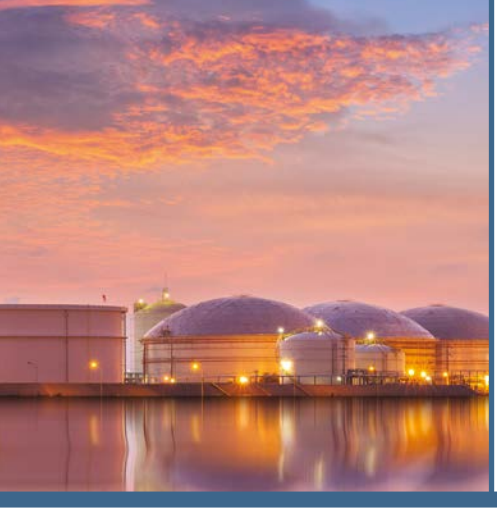
5 FILLER
Solid rubber filler

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

CONTACT INFO:
prysmianoilandgas@prysmiangroup.com
www.prysmiangroup.com/contact-us

Prysmian Group



Oil & Gas - Cable Solutions

Pipelines & LNG - Onshore

Low Voltage & Control Cables

ICEA S-95-658 (NEMA WC70)

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

+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.

CONTACT INFO:
prysmianoilandgas@prysmiangroup.com
www.prysmiangroup.com/contact-us

Prysmian Group