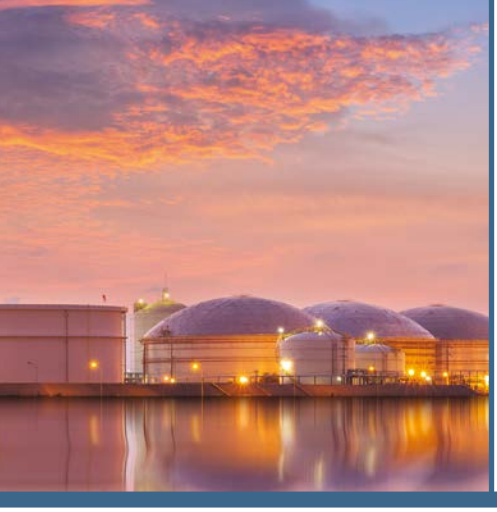


Oil & Gas - Cable Solutions

Pipelines & LNG - Onshore

Medium Voltage Cables

ICEA S-93-639 (NEMA WC74)

Medium Voltage AIRGUARD™ 5-35 kV Cu/EPR/AIRBAG™/DRYLAM™ PVC or LSZH

Medium Voltage power cables 5-35 kV. Flame retardant, polymeric armored, PVC or LSZH jacket.

APPLICATION

Medium Voltage AIRGUARD™ Power cables are designed for fixed installations in the harsh environments found in the heavy industrial markets. Its rugged polymeric AIRBAG™ armor and Drylam™ 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. Medium Voltage AIRGUARD cables are also suitable for VFD applications.

STANDARDS & APPROVALS

ASTM B3 & ASTM B8 (Conductors)
ICEA S-93-639 (NEMA WC74)
UL 1072 (Type MV-105)
CSA C68.10
CSA 96.1
CSA 22.2 No. 03 (Cold Bend/Cold Impact)
MSHA (Mine Safety & Health Administration)

DESIGN & CONSTRUCTION

1 **CONDUCTOR**
Class B compact concentric soft drawn copper from #2 AWG through 1000 kcmil multiconductor

2 **CONDUCTOR SHIELD**
Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation

3 **INSULATION**
High dielectric strength EPROTENAX® EPR-based insulation, combined with other additives that enhance the electrical and mechanical characteristics and extending cable life

4 **INSULATION SHIELD**
Extruded thermosetting semiconducting shield with controlled adhesion to the insulation providing the required balance between electrical integrity and strippability

5 **METALLIC SHIELD**
Helically applied non-magnetic copper tape(s) over the insulation shield with a minimum overlap of 15%. A Mylar ribbon is applied longitudinally under the copper tape shield for phase identification
1C w/ Red, 1C w/ Blue, and 1C w/ Black

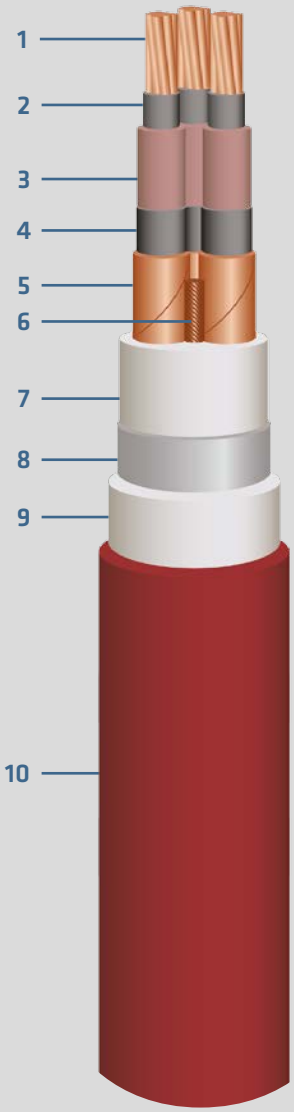
6 **GROUNDING CONDUCTORS**
Phase conductors are assembled with three (3) grounding conductors per UL, ICEA, and ASTM

7 **ASSEMBLY**
Phase identified conductors cabled with fillers and grounding conductors, forming a firm and cylindrical core. A binder tape is applied to maintain core symmetry and mechanical stability

8 **CHEMICAL PROTECTION**
A layer of Drylam™ which consists of a 6 mil aluminum coated tape and a chemical resistant extruded polymer layer is applied

9 **MECHANICAL PROTECTION**
High strength and high crush resistant AIRBAG™ layer extruded over the core assembly

10 **OUTER SHEATH**
Sunlight, oil, and moisture resistant PVC meeting the requirements of CSA 22.2 No. 03 -40/-35 °C cold bend/cold impact or LSZH



CONTACT INFO:
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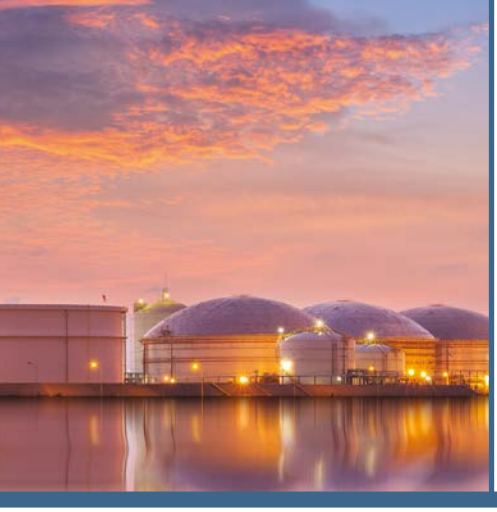
Prysmian Group



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Medium Voltage Cables

ICEA S-93-639 (NEMA WC74)

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

LOW EMISSION

MAX OPERATING TEMPERATURE

+105 °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.

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