



Oil & Gas - Cable Solutions

Refineries & Petrochemical - Onshore

Medium Voltage Cables

ICEA S-93-639 (NEMA WC74)

MV-105 POWER 5-35 kV EPR Cu/Semicon/EPR/Semicon/Cu Tape/PVC

Medium Voltage power cables 5-35 kV. Flame retardant, sunlight resistant, PVC jacket.

APPLICATION

Medium Voltage single conductor MV-105 power cables are designed to deliver power in fixed installations in industrial facilities. Cables may be installed in wet or dry locations in duct, cable trays, directly buried, or installed on messenger. Cables are rated sunlight resistant and are listed for CT use.

STANDARDS & APPROVALS

ASTM B3 & ASTM B8 (Conductors)

ICEA S-93-639 (NEMA WC74)

ICEA S-97-682

UL 1072

AEIC CS8

IEEE 383 (#1/0 AWG and larger)

UL 1202 (250 kcmil and larger)

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 OUTER SHEATH

Sunlight, oil, and moisture resistant PVC meeting the requirements of CSA 22.2 No. 03 -40/-35 °C Cold bend/Cold impact





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PERFORMANCES/RATINGS

FIRE BEHAVIOUR



IEEE 1202/ FT4 (250 kcmil and larger)
IEEE 383 (#1/0 AWG and larger)

CHEMICAL RESISTANCE



VERY GOOD

IMPACTS



GOOD

SMOKE DENSITY, CORROSIVITY AND TOXICITY



LOW EMISSION

MIN. INSTALLATION TEMPERATURE



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

MAX OPERATING TEMPERATURE



+105 °C

SHORT CIRCUIT TEMPERATURE



+250 °C

EMERGENCY OVERLOAD TEMPERATURE



+140 °C

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