Oil & Gas - Cable Solutions

Refineries & Petrochemical - Onshore

Instrumentation Cables
ICEA S-82-552 (NEMA WC55)

LOW Voltage AIRGUARD™ Instrumentation 600 V IS/OS Cu/XLPE/AIRBAG™/PVC or LSZH

Instrumentation cables - pairs and triads - 600 V. Flame retardant, polymeric armored, PVC or LSZH jacket.

APPLICATION
Low Voltage AIRGUARD™ Instrumentation cables are designed for 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-82-552 (NEMA WC55)
UL 44 (XHHW-2 600V)
CSA 22.2 No. 38
CSA 22.2 No. 230
CSA 22.2 No. 239
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 #16 AWG single and multi pairs and triads

2 INSULATION
Cross linked polyethylene (XLPE) XHHW-2

3 PAIR/TRIAD SHIELDING
An aluminum/ polyester tape with drain wire (100% coverage) is applied over each twisted pair or triad and over the cabled core. The single pair or single triad has only the overall shield.

4 FILLER
Solid rubber filler

5 ARMOURING/CHEMICAL BARRIER
Prysmian patented AIRBAG™ polymeric armor/chemical barrier

6 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
Flame retardant in accordance with IEEE 120/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.