CORFLEX®

Continuous Corrugated Aluminum Sheathed PL, MC & MV Industrial Cables

Manufactured since the 1950s, CORFLEX® cables are the cost-effective solution for hazardous locations.

Versatile

- Wide variety of possible constructions from 18 AWG to 500 kcmil with various conductor counts
- Rated 300 V to 15 kV and can be used in many different applications such as industrial, commercial and utility
- Exceptional fire ratings (as per appropriate specifications), impact-resistance, flexibility and an impervious metallic sheath are key components of this design
- Fewer cable splices required as can transition between various types of installation (wet or dry locations, direct burial, open air, cable tray or embedded in concrete)
- Used in plenums (with no outer coverings), ducts and other airways per NEC Article 300.22.
- Fewer physical supports required due to hand-trainable and self-supporting qualities
- CORFLEX® VFD is the best of eight cable constructions studied for use between a VFD and motor (IEEE paper called "Evaluation of Motor Power Cables for PWM AC Drives" in 1996)

Armored Instrumentation Cables

CORFLEX® PL

- Single or multiple individually shielded pairs or triads & overall cable shield
- Suitable for control, signal, and instrumentation circuits with 300 volt rating
- Meets UL requirements for Type PLTC (Power Limited Tray Cable) and ITC (Instrumentation Tray Cable)
- Designated Type PLTC per NEC Article 725 and ITC per NEC Article 727
- Meets UL 13 and UL 2250, flame retardant & 105°C rating
- Cables are American Bureau of Shipping (ABS) listed as CWC MC Type PLTC

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Armored Power and Control Cables

- Meets UL 1569 requirements for Type MC & UL 2225 for Hazardous Locations (MC-HL)
- Designated Type MC as per NEC Article 330
- Suitable for direct burial, use in cable tray and embedding in concrete
- Continuous, impervious aluminum sheath is corrugated for flexibility which prevents ingress of moisture, gases and liquids
- Excellent mechanical & physical properties and minimal noise and signal interference

CORFLEX® MC

- PVC/Nylon type TFN in accordance with UL 66, flame retardant, 90°C rating and 600 V conductors
- Suitable for use as feeders and branch circuits for power, control, lighting and signalling as per NEC Articles 330, 725 & 727
- Cables are ABS listed as CWC MC Type MC

CORFLEX® MV-105 or MC-HL

- 3 conductors with 1 bare ground wire, 133% or 100% insulation level, rated 105°C with continuous corrugated aluminum sheath & PVC sunlight resistant jacket
- Designed for use on power circuits and as feeders & branch circuits as per NEC Article 328
- Available in 5 kV, 8 kV & 15 kV
- Aluminum armor resistance exceeds requirements of the NEC Article 250.178 for equipment grounding conductor
- Meets UL 1309 and IEEE 1580 requirements for Marine Shipboard Cable & UL 1072 requirements for medium voltage power cables

CORFLEX® VFD

- Designed to improve the operating performance of variable frequency drive systems
- Provide excellent shielding from high frequency noise that can interfere with data and control signals
- 3 conductor with 3 ground wires, continuous corrugated and welded, impervious aluminum sheath & PVC sunlight resistant jacket
- Aluminum sheath and 3 bare grounds, ensuring a balanced, very low-resistance path to reduce chance of motor failure due to bearing currents
- Aluminum sheath cross-section exceeds requirements of the NEC Section 250.122 for grounding conductor
- Cross-linked polyethylene Type XHHW-2 per UL 44 for 600 V rated cables, and EPR Type MV105 per UL 1072 for 5 kV and 8 kV
- Temperature rating of 90°C dry and wet

CORFLEX® cables are an effective and time-saving product for installers.

For any technical questions, please contact us: 1-866-663-9267 | www.nexans.us

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