CORFLEX* II Aluminum Sheathed Cables



600 Volts 90°C

CORFLEX* II RA90 (–40°C) XLPE

Description

Single or multi copper or aluminum conductors with Exelene* Insulation (RW90) enclosed in a liquid- and vapour-tight solid corrugated aluminum sheath. An overall low temperature low acid gas and low flame spread PVC jacket (LAG/LFS) with FT4 and AG14 rating.
Unjacketed CORFLEX with FT4 and AG14 ratings is also available.
CSA Spec C22.2 No. 123-96 (R2001)
CSA File #LL19376 Class 5812 01 - Cable
CSA File #LL19376 Class 5818 01 - Hazardous Location Cable Application

Application

For exposed and concealed wiring in dry or wet locations and where exposed to the weather.
For use in ventilated, non-ventilated, and ladder type cabletroughs and ventilated flexible cableways in dry or wet locations.
For direct earth burial (with protection as required by Inspection Authority). For direct embedding in concrete, masonry or plaster (with permission as required by Local Inspection Authority).
For service entrance above or below ground.
CORFLEX* cable certified for use in hazardous locations with approved connectors. Nexans Canada Type W connector are approved for Class II Divisions 1 and 2 (Groups E, F and G) and Class III Divisions 1 and 2.

Installation Notes

1. CORFLEX* cables should be installed using only the approved Nexans wet and dry type connectors. For details of connector see Accessories & clips for Corflex file.
2. **Ampacity for single conductor CORFLEX***
   - for cables to qualify for Table 1 and 3 (2002 C.E. Code) free air ampacity ratings, cables are required to be spaced one cable diameter (two diameters centre to centre) apart. These are the ampacities shown in the following tables.
   - for single cables in direct burial, see rule 4-004 and the notes for rule 4-004 in Appendix B & D (2002 C.E. Code). For details of direct buried cable see Ampacity Rating & Recommended Configurations for single conductor direct buried cable.
3. **Ampacity for multi-conductor CORFLEX**
   - for cables to quality for Table 2 and 4 (2002 C.E. Code) free air ampacity ratings, cables are required to be spaced one cable diameter (two diameters centre to centre) apart. These are the ampacities show in the following tables.

- for cables in direct burial, see rule 4-004 in Appendix B & D (2002 C.E. Code). For details of multi-conductor direct buried cables For details of multi-conductor direct buried cable see Ampacity Rating & Recommended Configurations for three-conductor direct buried cable.

4. The CORFLEX* sheath and connector may be used as an EQUIPMENT Bonding Conductor (not as a SYSTEM ground) and is sized to meet the requirements of the C.E. Code Table 16 (Ref. Rules 10-812 and 10-814).
   When used as SERVICE ENTRANCE feeders, CORFLEX* cables should be fitted with non-ferrous grounding type bushings at the service equipment end (Ref. C.E. Code Rules 10-602 to 10-610).
   For other than service entrance circuits, bonding continuity of the sheath is established through the CORFLEX* connectors.
5. Installation of any *single conductor* metal sheathed or armoured cables should be made with due consideration of the effects of sheath currents and of induced eddy currents in ferrous end plates. (Refer to Rules 4-008, 10-302(2) and 12-3024 and the notes on these rules in Appendix 'B' of the C.E. Code.)
   Where sheath currents are allowed to flow in single conductor CORFLEX* cables (carrying above 425 amps). For Nexans' recommended ratings see Corflex Cable Derating to Sheath Currents sheet. Where sheaths are isolated, it may be necessary to install a supplementary equipment bonding wire. For single conductor cables carrying more than 200 amps, non-ferrous entrance plates, connectors, bushings, washers and clamps, etc., must be used.
6. **Minimum recommended bend radius** — see CORFLEX* II Data Tables.
7. **Recommended spacing of supports:**

   Horizontal
   Single conductor cables up to 32mm (1.25") diameter:
   0.91 - 1.22 m (3–4 ft.)
   Single conductor cables over 32mm (1.25") diameter:
   1.22 - 1.52 m (4–5 ft.)
   Multi-conductor Power Cable:
   1.22 - 1.52 m (4–5 ft.)
   5 or more conductors Cable
   0.91 - 1.22 m (3–4 ft.)

   Vertical
   All constructions: **1.82 - 2.44 m (6–8 ft.)**
   Spacing of supports for single conductor cables should be reduced from above if short circuit conditions are unusually severe.

8. Minimum recommended installation temperature minus 40°C (with suitable handling procedures). Maximum conductor temperature 90°C.