



Siechem (2C X 70 + 1C X 25) + (5C X 0.75 + 1C X 0.75) TPU Outer Sheathed EV Charging Cable

Application

- ✓ Used for conditioning compressors, PTC auxiliary heaters and the vehicle.
- ✓ Internal connection of the charging socket to the charger aggregate.
- ✓ Used today by different OEMs for the connection of HV aggregates.

Features

- ✓ High Flexibility
- ✓ High temperature resistance
- ✓ Low Mechanical loads

Product Construction

- ✓ Conductor : Annealed Plain Copper Conductor
- ✓ Insulation : EBXL- XLPO
- ✓ Individual Shield : Al.Mylar Tape
- ✓ Individual Screen : ATC
- ✓ Collective Shield : Al.Mylar Tape
- ✓ Collective Screen : ATC
- ✓ Inner Sheath : EBXL -XLPO
- ✓ Tapping : Water Swellable tape
- ✓ Outer Sheath : TPU - Black
- ✓ Colour :
 - i) 2Cx70 Sq.mm - Red, Black
 - ii) 1Cx25 Sq.mm - Green/Yellow
 - iii) 5Cx0.75 Sq.mm - Orange, Purple, Blue, Brown & Grey
 - iv) 1Cx0.75 Sq.mm - White or As Per Customer Order
- ✓ Composite Cable

Technical Data

- ✓ **Electrical Properties :**
 - ✓ Min.Insulation Volume Resistance at 20°C : 36.7 MΩ/km
 - ✓ Dielectric : Power Core : 2.5 kV AC / 5 min
 - Control Core : 1.5 kV AC / 5 min
- ✓ **Mechanical Properties :**
 - ✓ Tensile Strength (Before Ageing)
 - i) Insulation : >8 Mpa
 - ii) Sheath : >13 Mpa
 - ✓ Elongation (Before Ageing)
 - i) Insulation : >200%
 - ii) Sheath : >250%
 - ✓ Oil Resistance : Gasoline, IRM903#, IRM902#, OD Variation ± 15%, No Cracking.
 - ✓ Resistance against acid and alkaline at 23°C : 168H Tensile Strength Variation ± 30 % Elongation ≥ 100 %
 - ✓ Cold Bend : - 40°C 16 hours, No Crack
 - ✓ Hot Shock : 150°C 1 hours, No Crack
- ✓ **Fire Properties :**
 - ✓ Flame Resistance : Single Cable as per IEC 60332-1-2
 - ✓ Low Smoke, Halogen Free & Flame Retardant : Complies
 - ✓ RoHS and REACH : Complies
 - ✓ Bending Radius, Min : 10 X Cable OD

2D View



| | | | | | |
|----------|-----------|------------|-------------|---------|-----------|
| ISO 9001 | ISO 14001 | IATF 16949 | OHSAS 18001 | AS 9100 | ISO 45001 |
| | | | | | |

| Part number | No.of core x Nominal Cross Sectional Area | No. of Stands / Stand dia | Max. DC. Conductor Resistance at 20° C | Thickness of Insulation (Nom) | Dia. Over Insulation (Nom) | Individual Shielding Material | Individual Braiding Wire Dia (Nom.) | Collective Shielding Material | Collective Braiding Wire Dia. (Nom.) | Inner Sheath Thickness (Nom.) | Thickness of Outer Sheath | | Overall Diameter of Cable (Nom) | Approx Cable Weight |
|-------------|---|---------------------------|--|-------------------------------|----------------------------|-------------------------------|-------------------------------------|-------------------------------|--------------------------------------|-------------------------------|---------------------------|-----|---------------------------------|---------------------|
| | | | | | | | | | | | Nom | Max | | |
| | Nos x sqmm | Nos x sqmm | Ω / km | mm | mm | | mm | | mm | mm | mm | mm | mm | kg/km |
| A7263709 | 2C X 70 + | 2235/0.20 | 0.272 | 1.6 | 15.0 ± 0.50 | - | - | - | - | - | 2.5 | 3.0 | 36.0 ± 1.0 | 2830 |
| | 1C X 25 + | 800/0.20 | 0.786 | 1.2 | 9.60 ± 0.30 | - | - | - | - | - | | | | |
| | 5C X 0.75 + | 42/0.15 | 26.0 | 0.6 | 2.40 ± 0.20 | - | - | Al.Mylar Tape | 0.12 | 0.5 | | | | |
| | 1C X 0.75 | 42/0.15 | 26.0 | 0.6 | 2.40 ± 0.20 | Al.Mylar Tape | 0.10 | | | | | | | |

