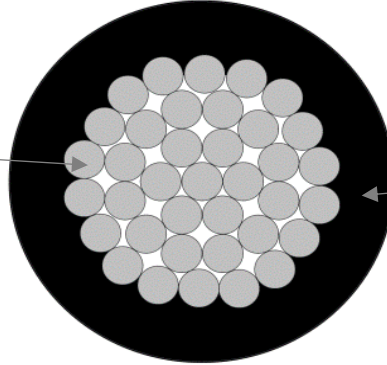


Power Cable, Single Core, 1.8 / 3 kV Unsheathed EBXL 90°C Rolling Stock Cable

The complete requirements for procuring the wire described herein shall consist of this document.

Conductor

Stranded Tinned Copper
Class 5



Insulation

EBXL - EL 109

| Part Description | Cross Section (mm ²) | Conductor Construction No. of strands x Strand Diameter Nos x mm | Conductor Diameter (mm) | | Conductor Resistance (Ω/km) | | Insulation Thickness (mm) | Overall Diameter (mm) | | Cable Weight (kg/km) Approx. |
|--------------------|-------------------------------------|--|----------------------------|--------|--------------------------------|------|------------------------------|--------------------------|--|------------------------------------|
| | | | Nom. | Max. | Min. | Max. | | | | |
| RAIL-PC-35-1.50-* | 1.5 | 29 X 0.25 | 1.5 | 13.7 | 2.0 | 5.3 | 6.2 | 55 | | |
| RAIL-PC-35-2.50-* | 2.5 | 47 X 0.25 | 2.0 | 8.21 | 2.0 | 5.7 | 6.7 | 65 | | |
| RAIL-PC-35-4.00-* | 4 | 52 X 0.30 | 2.4 | 5.09 | 2.0 | 6.2 | 7.3 | 85 | | |
| RAIL-PC-35-6.00-* | 6 | 78 X 0.30 | 3.0 | 3.39 | 2.0 | 6.7 | 7.8 | 105 | | |
| RAIL-PC-35-10.0-* | 10 | 77 X 0.40 | 4.1 | 1.95 | 2.0 | 7.5 | 8.8 | 155 | | |
| RAIL-PC-35-16.0-* | 16 | 126 X 0.40 | 5.1 | 1.24 | 2.0 | 8.6 | 10.0 | 215 | | |
| RAIL-PC-35-25.0-* | 25 | 190 X 0.40 | 6.3 | 0.795 | 2.0 | 9.9 | 11.6 | 300 | | |
| RAIL-PC-35-35.0-* | 35 | 266 X 0.40 | 7.6 | 0.565 | 2.0 | 11.1 | 13.0 | 400 | | |
| RAIL-PC-35-50.0-* | 50 | 378 X 0.40 | 9.9 | 0.393 | 2.0 | 12.5 | 14.6 | 550 | | |
| RAIL-PC-35-70.0-* | 70 | 350 X 0.50 | 11.7 | 0.277 | 2.0 | 14.2 | 16.6 | 740 | | |
| RAIL-PC-35-95.0-* | 95 | 456 X 0.50 | 13.5 | 0.210 | 2.2 | 16.0 | 18.7 | 980 | | |
| RAIL-PC-35-120.0-* | 120 | 570 X 0.50 | 15.2 | 0.164 | 2.2 | 17.6 | 20.6 | 1190 | | |
| RAIL-PC-35-150.0-* | 150 | 722 X 0.50 | 17.1 | 0.132 | 2.2 | 19.1 | 22.3 | 1480 | | |
| RAIL-PC-35-185.0-* | 185 | 874 X 0.50 | 18.6 | 0.108 | 2.4 | 20.9 | 24.4 | 1820 | | |
| RAIL-PC-35-240.0-* | 240 | 1147 X 0.50 | 21.3 | 0.0817 | 2.4 | 23.7 | 27.5 | 2300 | | |
| RAIL-PC-35-300.0-* | 300 | 1443 X 0.50 | 24.0 | 0.0654 | 2.4 | 25.6 | 30.1 | 2830 | | |
| RAIL-PC-35-400.0-* | 400 | 1952 X 0.50 | 27.6 | 0.0495 | 2.6 | 29.2 | 34.2 | 3700 | | |

Marking

The cables shall be marked:

"TE CONNECTIVITY RAIL-PC-35-§-* 1800V BATCH NUMBER"

Where "§" = The nominal conductor cross-sectional area

Where "*" = Standard colour code designator in accordance with Mil Std 681.

Spaced ≤ 550mm longitudinally, measurement taken from beginning of mark.

Approval

Electronic sign off - no signatures will appear.



Specification Control Drawing

Power Cable, Single Core, 1.8 / 3 kV Unsheathed EBXL 90°C Rolling Stock Cable

The complete requirements for procuring the wire described herein shall consist of this document.

Technical Data

| | |
|-----------------------------|---------------------|
| Rated Voltage | 1.8 / 3.0 kV AC |
| Voltage Withstand | 6500 VAC |
| Working Temperature | -40°C to +90°C |
| Flammability | EN 60332-1-2 |
| Reaction to Fire | EN 45545-2 R15 HL3 |
| Smoke Emission | EN 45545-2 R15 HL3 |
| Mineral Oil Resistance | EN 50264-1 |
| Fuel Resistance | EN 50264-1 |
| Acid & Alkali Resistance | EN 50264-1 |
| Toxicity Index | EN 45545-2 R15 HL3 |
| Conductor | BS EN 60228 Class 5 |
| Specification | EN 45545-2 R15 HL3 |
| Long Term Thermal Endurance | ≥ 20,000h @ 125°C |

Approval

Electronic sign off - no signatures will appear.