



额定电压为**75 kVDC** 的 **L4**型高压电缆

高柔性、小直径、4芯橡皮绝缘高压电缆，额定电压为75kVDC。

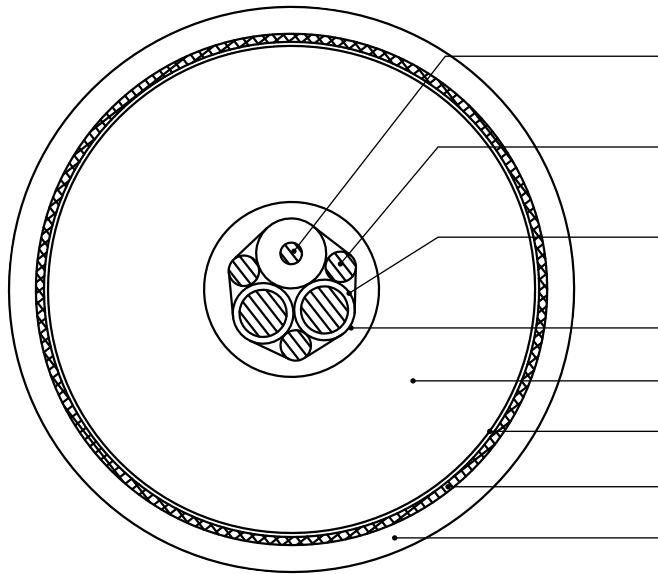
特点

- 低电容
- 高柔性
- 小直径
- 95% 的屏蔽编织覆盖率

说明

此型号4芯橡皮绝缘高压电缆的典型应用为：

- 医用X射线设备（如标准X射线设备）、计算机断层显像(CT)和血管造影设备。
- 工业和科学X射线设备或电子束设备，如电子显微镜和X射线衍射仪
- 小电量高电压测试测量仪器



Construction

Yellow Tefzel insulated conductors, 0.5mm² (20xØ0.18mm), stranded tinned copper wires.

Bare conductor, 2.3mm² (3x30xØ0.18mm), stranded tinned copper wires.

Red and white Tefzel insulated conductor, 1.8mm² (19xØ0.35mm), stranded tinned copper wires.

Semi-conducting tape.

High voltage insulation, EP rubber, black.

Semi-conducting tape.

Shielding braid, 95% coverage, tinned copper wires.

PVC jacket, color: light gray.

Technical data

Number of conductors	4
Rated voltage	75 kVDC
Routine test voltage (high voltage insulation)	120 kVDC / 10 min
Routine test voltage (red / white insulation)	3.5 kVACrms / 5 min
Routine test voltage (yellow cond. insulation.)	6.5 kVACrms / 1 min
Maximum conductor current	1.8 mm ² : 15 A; 0.5 mm ² : 8 A; 0.75 mm ² : 9 A
Corona level at 75kVDC	≤10 pC
Nominal outside diameter	21.3 mm / 0.839 in / ±0.5 mm / ±0.020 in
Thickness of PVC jacket	1.0 mm / 0.039 in
Thickness of high voltage insulation	5.9 mm / 0.232 in
Diameter of core-assembly	5.8 mm / 0.228 in
Insulation resistance core to shield @20°C	≥5x10 ¹² Ω·m / ≥15x10 ¹² Ω·ft
Conductor insulation resistance @20°C	≥1x10 ¹³ Ω·m / ≥3x10 ¹³ Ω·ft
Conductor resistance bare conductor @20°C	8.4 mΩ/m / 2.8 mΩ/ft / ±5%
Conductor resistance red/white cond. @20°C	9.5 mΩ/m / 3.1 mΩ/ft / ±5%
Conductor resistance yellow cond. @20°C	38.5 mΩ/m / 12.6 mΩ/ft / ±10%
Shield resistance @20°C	≤14.8 mΩ/m / ≤4.9 mΩ/ft
Capacitance between conductors and shield	145 pF/m / 48 pF/ft / ±10%
Capacitance between yellow and bare cond.	120 pF/m / 39 pF/ft
Cap. between red/white and bare conductor	300 pF/m / 98 pF/ft
Cable min. bending radius (static installation)	42 mm / 1.7 in
Cable min. bending radius (dynamic installation)	84 mm / 3.3 in
Operating temperature	-10/+70 °C / +14/+158 °F
Storage temperature	-40/+70 °C / -40/+158 °F
Net weight	610 kg/km