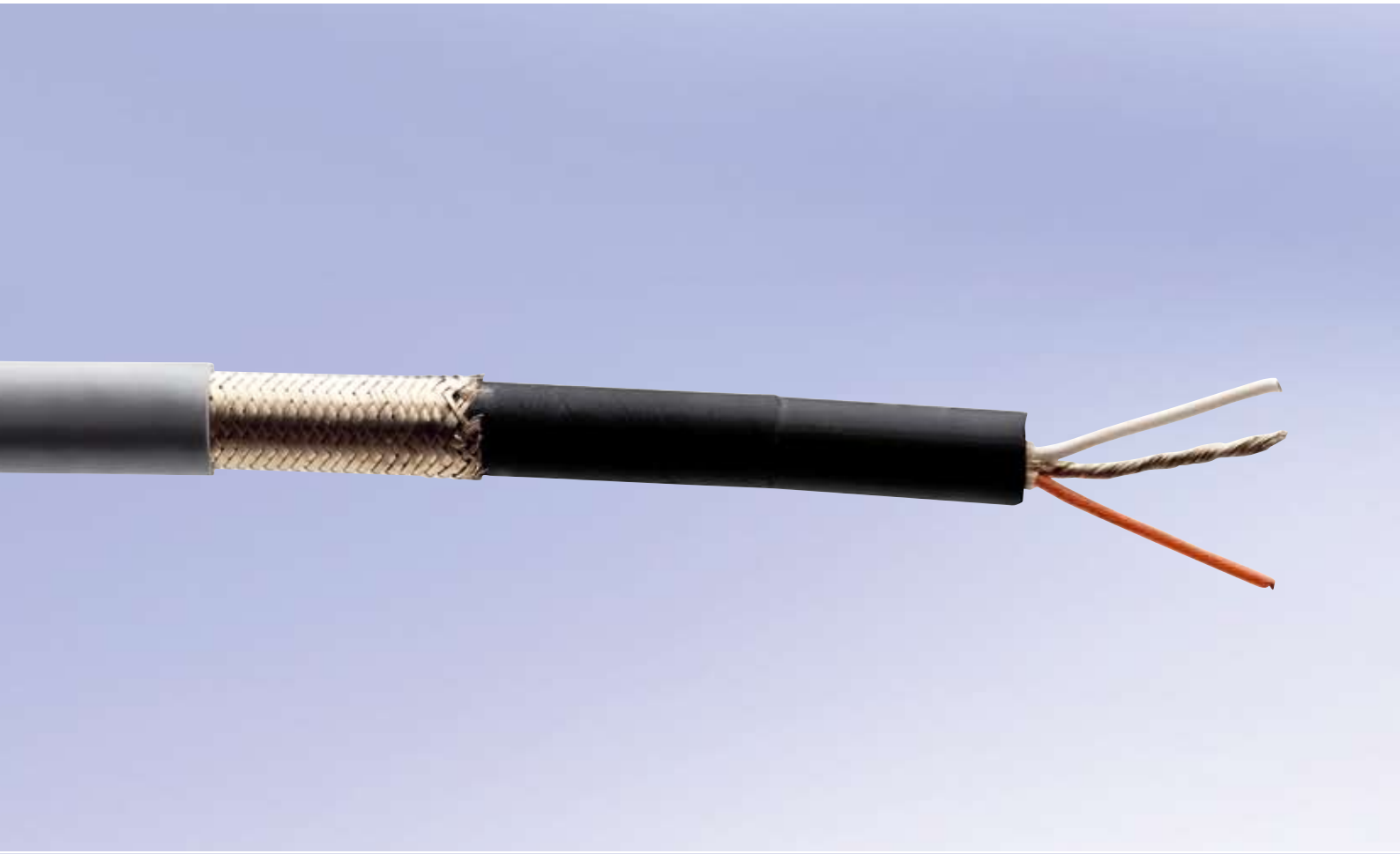


L3-type (Locaflex) 75 kVDC rated High Voltage Cable

Highly flexible, small diameter, low capacitance, 3-conductor, 75kVDC rated rubber insulated high voltage cable.

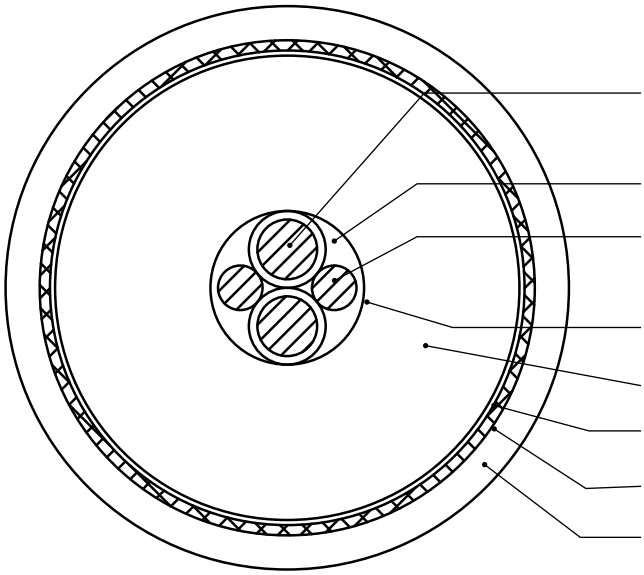
Features

- Low capacitance.
- High flexibility.
- Small diameter.
- 95% shielding braid coverage.
- Choice of PVC or PUR jackets.

Description

This 3-conductor, rubber insulated high voltage cable's typical applications are:

- Medical X-ray equipment like standard X-ray, computer tomography and angiography equipment.
- Industrial and scientific X-ray or electron beam equipment like electron microscopy and X-ray diffraction equipment.
- Low power high voltage test- and measuring equipment.



Construction

Red and white Tefzel insulated conductors, 1.8mm^2 (19xØ0.35mm), stranded tinned copper wires.

Fillers.

Bare conductor, 2.5mm^2 (2x50xØ0.18mm), 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, black, white or black with a yellow stripe, all with LOCAFLEX imprinted.
PUR jacket available also.

Technical data

Number of conductors	3
Rated voltage	75 kVDC
Routine test voltage (high voltage insulation)	120 kVDC / 10 min
Routine test voltage (conductor insulation)	3.5 kVACrms / 5 min
Maximum conductor current	1.8 mm^2: 18 A; 1.25 mm^2: 11 A
Corona level at 75 kVDC	≤10 pC
Nominal outside diameter	16.7mm / 0.657 in / ±0.5 mm / ±0.020 in
Thickness of PVC jacket	1.0 mm / 0.039 in
Thickness of high voltage insulation	4.3 mm / 0.169 in
Diameter of core-assembly	4.7 mm / 0.185 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 cond. @ 20°C	6.6 mΩ/m / 2.2 mΩ/ft / ±5%
Conductor resistance insul. cond. @ 20°C	9.5 mΩ/m / 3.1 mΩ/ft / ±5%
Shield resistance @ 20°C	10.9 mΩ/m / 3.6 mΩ/ft / ±5%
Capacitance between conductors and shield	145 pF/m / 44 pF/ft / ±10%
Capacitance between ins. cond. and bare cond.	479 pF/m / 157 pF/ft / ±10%
Capacitance between insulated conductors	273 pF/m / 90 pF/ft / ±10%
Cable min. bending radius (static installation)	33 mm / 1.3 in
Cable min. bending radius (dynamic installation)	66 mm / 2.6 in
Operating temperature	-10/+70 °C / +14/+158 °F
Storage temperature	-40/+70 °C / -40/+158 °F
Net weight	380 kg/km