



Construction:

- Conductor : flexible copper wires.
- Insulation : special silicone rubber compound, 300° C.
- Core identification : white, blue, brown coloured cores.
- Triple : three conductors twisted to a triple.
- PIMF construction : wrapping of polyester tape, with drain wire (7 wires), AL-PES tape and polyester tape wrapping.
- Lay-up : TIMF laid up in layers of optimum pitch
- Separator : polyester tape.
- Screen : with drain wire (7 wires) under the AL-PES tape.
- Screen : braid of tinned copper wires, 65% coverage.
- Separator : polyester tape.
- Outer sheath : special silicone rubber compound, 300° C grade.
- Sheath colour : RAL 3000, red or RAL 2003, orange.

Technical data and tests:

- Rated voltage : 250 V (for peak voltage). d/d : damar/damar
- Test voltage (AC 50 Hz) : 1200 V. c/c : core/core
- Insulation resistance : min. 50 MΩ/km.
- Mutual Capacitance (800 Hz) : d/d-c/c max. 250 pF/m.
- Inductance : ~ 0,67 Mh/km.
- Impedance : ~ 80 Ω.
- Temperature range : fixed : - 60° C ~ + 300° C;
mobile : - 25° C ~ + 250° C.
- Min. bending radius : fixed : 8 x D;
mobile : 15 x D.

DIMENSIONS			
No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
30x3x1	37.9	930	1975

Standards:

- Cable : VDE 0812 & VDE 0814 & VDE 0250.
- Conductor : IEC 60228 class 5, DIN EN 60228 class 5.
- Flame retardance test : IEC 60332-1 & EN 50265-2-1;
IEC 60332-3 & EN 50266-2-4.

Applications:

This halogen-free screened, silicone insulated cable is used where high temperatures can arise as well as for ambient air temperatures between – 60° C and +300° C as control and connection cable. It is used in instrumentation and control engineering, in industrial electronics, computers, information and transmission systems, office machines; data transmission cable for voice frequency transmission. This cable has a higher resistance against tearing and tensile strength than its specially formulated silicone compound. In case of fire, this cable inhibits the propagation of flames and the development of smoke is extremely low. No corrosive gases are emitted in the event of fire. The individual screen consists of tinned copper wires and provides protection against external pulses. It also has tinned copper drain wires for continuity of the individual screen and for earthing. This cable is not intended for outdoor or underground installation.

