

Power & Control Cable

IEC 60502-1

(2-, 3-, 4- and 5-cores)

U₀/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath, Fire Resistant

2XH

Application

For electricity supply and control in public networks and industrial plants or public buildings, where people are potentially endangered in case of fire and where, for a defined period of time, the continuity of control and energy supply is of vital necessity; suitable for use in zone 1 and zone 2 group II classified areas (IEC 60079-14).

For indoor and outdoor installation in dry and wet locations, on racks, in conduits (Local and / or legal requirements to be noted) Recommended for direct burial (partly).

Construction

Conductor plain annealed copper, class 1 or class 2 resp., acc. to IEC 60228,
class 1: circular solid (RE)
class 2: circular stranded (RM)

Insulation cross-linked polyethylene XLPE, over the MICA-tape wrapped conductor

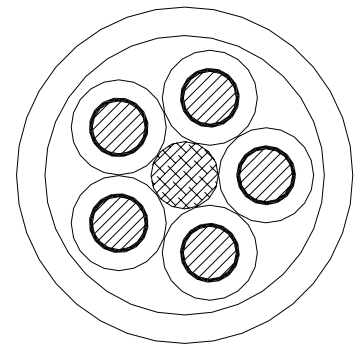
Colour code ¹⁾ Two-core: blue, brown
Three-core: brown, black, grey
Four-core: blue, brown, black, grey
Five-core: blue, brown, black, grey, black

Laying up cores twisted in layers (if necessary with filling element(s))

Inner Covering extruded filler of regenerated rubber

Outer Sheath extruded zero halogen flame retardant compound LSZH, black

Cable marking ELECTRIC CABLE 0.6/1 kV IEC 60502-1
KERPEN, YEAR, LENGTH MARKING, IEC 60331



Technical Data

Abbreviations

Flame retardancy: IEC 60332-1

Flame propagation: IEC 60332-3 cat. A

Fire resistance: IEC 60331-21 (90 min/750 °C)

Smoke density: IEC 61034-1 and 2

Amount of halogen acid gas: IEC 60754-1; 0 %

Degree of acidity of gases: IEC 60754-2

Outer sheath:

Limiting Oxygen Index (LOI): min. 30 %
(IEC 60332-3 ann. B)

Temperature Index (TI): min. 250 °C
(ASTM-D-2863)

Temperature range: - 30 °C up to + 90 °C
(during operation)
- 5 °C up to + 50 °C
(during installation)
max. + 250 °C
(under short circuit)

Min. bending radius:
8 x cable-∅

2X insulation of XLPE
H outer sheath of LSZH

Electrical Data at 20 °C

	Character	Unit	Values
Conductor resistance	max.	Ω/km	acc. to IEC 60228
Test voltage U_{rms} core:core		V	3500
Nominal voltage U₀ /U		V	600/1000
Highest system voltage U_m	max.	V	1200 (for three phase systems)

¹⁾ other colours on request

For further details see appendix

