

Power & Control Cable

IEC 60502-1

(Multicores)

U₀/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath

2XH

Application

For electricity supply and control in public networks and industrial plants; suitable for use in zone 1 and zone 2 group II classified areas (IEC 60079-14).

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

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

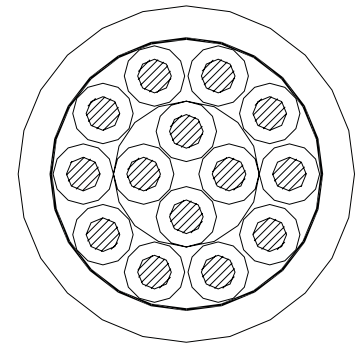
Colour code black, continuously numbered

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

Wrapping at least 1 layer of plastic tape

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



Technical Data

Flame retardancy: IEC 60332-1

Flame propagation: IEC 60332-3 cat. A

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-Ø

Abbreviations

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)

For further electrical details see appendix

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2XH					
Geometrical Data					
No. of cores and cross-section (nom.) n / mm ²	Radial thickness of insulation (nom.) mm	Radial thickness of outer sheath (nom.) mm	Overall diameter (approx.) mm	Weight of cable (approx.) kg / km	Part number
5 x 1.5 RE	0.7	1.8	11.3	180	22220066
7 x 1.5 RE	0.7	1.8	12.2	220	22220067
10 x 1.5 RE	0.7	1.8	14.9	310	22220068
12 x 1.5 RE	0.7	1.8	15.3	340	22220069
19 x 1.5 RE	0.7	1.8	17.7	480	22220070
27 x 1.5 RE	0.7	1.8	21.0	660	22220071
37 x 1.5 RE	0.7	1.8	23.4	860	22220072
48 x 1.5 RE	0.7	1.8	26.5	1080	22220073
5 x 1.5 RM	0.7	1.8	11.9	190	22220074
7 x 1.5 RM	0.7	1.8	12.8	230	22220075
10 x 1.5 RM	0.7	1.8	15.8	320	22220076
12 x 1.5 RM	0.7	1.8	16.2	360	22220077
19 x 1.5 RM	0.7	1.8	18.8	510	22220078
27 x 1.5 RM	0.7	1.8	22.3	700	22220079
37 x 1.5 RM	0.7	1.8	24.8	910	22220080
48 x 1.5 RM	0.7	1.8	28.3	1150	22220081
5 x 2.5 RE	0.7	1.8	12.4	240	22220082
7 x 2.5 RE	0.7	1.8	13.4	300	22220083
10 x 2.5 RE	0.7	1.8	16.4	400	22220084
12 x 2.5 RE	0.7	1.8	16.9	460	22220085
19 x 2.5 RE	0.7	1.8	19.8	670	22220086
27 x 2.5 RE	0.7	1.8	23.4	920	22220087
37 x 2.5 RE	0.7	1.8	26.1	1210	22220088
48 x 2.5 RE	0.7	1.9	29.9	1550	22220089
5 x 2.5 RM	0.7	1.8	13.0	250	22220090
7 x 2.5 RM	0.7	1.8	14.0	310	22220091
10 x 2.5 RM	0.7	1.8	17.4	420	22220092
12 x 2.5 RM	0.7	1.8	18.0	490	22220093
19 x 2.5 RM	0.7	1.8	21.0	710	22220094
27 x 2.5 RM	0.7	1.8	24.9	980	22220095
37 x 2.5 RM	0.7	1.8	27.8	1290	22220096
48 x 2.5 RM	0.7	1.9	31.9	1650	22220097

RE: circular solid • RM: circular stranded • SM: sector shaped stranded