Power & Control Cable — IEC 60502-1

(Multicores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, Armour, LSZH-Sheath

2XHRH

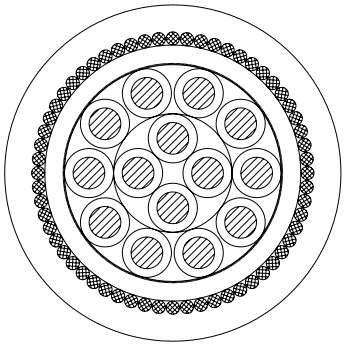
Application

For electricity supply and control in public networks and industrial plants or public buildings, where people are potentially endangered in case of fire; 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
Bedding	extruded zero halogen flame retardant compound LSZH, black
Armour	galvanized round steel wires
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-∅	

Abbreviations

2X	insulation of XLPE
H	bedding & outer sheath of LSZH
R	round steel wire armour

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
Test voltage U_{rms} core:armour		V	3500
Nominal voltage U_o/U		V	600/1000
Highest system voltage U_m	max.	V	1200 (for three phase systems)

For further details see appendix

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Geometrical Data

No. of cores and cross-section (nom.) n / mm²	Radial thickness of insulation (nom.) mm	Diameter over bedding (approx.) mm	Armour wire diameter (nom.) mm	Radial thickness of outer sheath (nom.) mm	Overall diameter (approx.) mm	Weigth of cable (approx.) kg / km	Part number
5 x 1.5 RE	0.7	9.3	0.8	1.8	14.7	420	21380025
7 x 1.5 RE	0.7	10.1	0.8	1.8	15.5	480	21380026
10 x 1.5 RE	0.7	12.9	1.25	1.8	19.0	690	21380027
12 x 1.5 RE	0.7	13.3	1.25	1.8	19.4	770	21380028
19 x 1.5 RE	0.7	15.7	1.25	1.8	21.8	990	21380031
27 x 1.5 RE	0.7	19.3	1.6	1.8	26.1	1440	21380034
37 x 1.5 RE	0.7	21.7	1.6	1.8	28.5	1720	21380063
48 x 1.5 RE	0.7	24.9	1.6	1.9	31.9	2090	21380064
5 x 1.5 RM	0.7	9.9	0.8	1.8	15.3	450	21380012
7 x 1.5 RM	0.7	10.8	0.8	1.8	16.2	510	21380013
10 x 1.5 RM	0.7	13.8	1.25	1.8	19.9	770	21380014
12 x 1.5 RM	0.7	14.2	1.25	1.8	20.3	830	21380015
19 x 1.5 RM	0.7	16.8	1.25	1.8	22.9	1070	21380018
27 x 1.5 RM	0.7	20.7	1.6	1.8	27.5	1560	21380021
37 x 1.5 RM	0.7	23.2	1.6	1.8	30.0	1830	21380065
48 x 1.5 RM	0.7	26.7	1.6	1.9	33.7	2270	21380066
5 x 2.5 RE	0.7	10.3	0.8	1.8	15.7	490	21380039
7 x 2.5 RE	0.7	11.3	1.25	1.8	17.4	660	21380040
10 x 2.5 RE	0.7	14.4	1.25	1.8	20.5	880	21380041
12 x 2.5 RE	0.7	14.9	1.25	1.8	21.0	950	21380042
19 x 2.5 RE	0.7	18.1	1.6	1.8	24.9	1430	21380045
27 x 2.5 RE	0.7	21.7	1.6	1.8	28.5	1800	21380048
37 x 2.5 RE	0.7	24.4	1.6	1.9	31.4	2230	21380067
48 x 2.5 RE	0.7	28.5	2.0	2.1	36.7	3010	21380068
5 x 2.5 RM	0.7	11.0	0.8	1.8	16.4	530	21380052
7 x 2.5 RM	0.7	12.0	1.25	1.8	18.1	690	21380053
10 x 2.5 RM	0.7	15.4	1.25	1.8	21.5	930	21380054
12 x 2.5 RM	0.7	16.0	1.25	1.8	22.1	1020	21380055
19 x 2.5 RM	0.7	19.4	1.6	1.8	26.2	1510	21380058
27 x 2.5 RM	0.7	23.3	1.6	1.8	30.1	1930	21380061
37 x 2.5 RM	0.7	26.2	1.6	1.9	33.2	2360	21380069
48 x 2.5 RM	0.7	30.5	2.0	2.1	38.7	3240	21380070

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