

Power & Control Cable

IEC 60502-1

(Multicores)

U₀/U 0.6 / 1 kV

**XLPE-Insulation, PVC-Sheath
2XY-fl**

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. 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

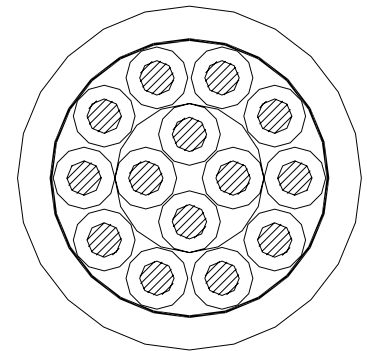
Colour code black, continuously numbered

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

Wrapping at least 1 layer of plastic tape

Outer Sheath extruded polyvinyl chloride PVC, 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

Outer sheath:

Amount of halogen acid gas: max. 17 %
(IEC 60754-1)

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

Temperature Index (TI): min. 300 °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

Y outer sheath of PVC

-fl reduced flame propagation

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 U ₀ /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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2XY-fl						
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	20810131	
7 x 1.5 RE	0.7	1.8	12.2	220	20810132	
10 x 1.5 RE	0.7	1.8	14.9	310	20810133	
12 x 1.5 RE	0.7	1.8	15.3	340	20810134	
19 x 1.5 RE	0.7	1.8	17.7	480	20810137	
27 x 1.5 RE	0.7	1.8	21.0	660	20810140	
37 x 1.5 RE	0.7	1.8	23.4	860	20810144	
48 x 1.5 RE	0.7	1.8	26.5	1080	20810148	
5 x 1.5 RM	0.7	1.8	11.9	190	20810150	
7 x 1.5 RM	0.7	1.8	12.8	230	20810151	
10 x 1.5 RM	0.7	1.8	15.8	320	20810152	
12 x 1.5 RM	0.7	1.8	16.2	360	20810153	
19 x 1.5 RM	0.7	1.8	18.8	510	20810156	
27 x 1.5 RM	0.7	1.8	22.3	700	20810108	
37 x 1.5 RM	0.7	1.8	24.8	910	20810112	
48 x 1.5 RM	0.7	1.8	28.3	1150	20810164	
5 x 2.5 RE	0.7	1.8	12.4	240	20810351	
7 x 2.5 RE	0.7	1.8	13.4	300	20810167	
10 x 2.5 RE	0.7	1.8	16.4	400	20810168	
12 x 2.5 RE	0.7	1.8	16.9	460	20810169	
19 x 2.5 RE	0.7	1.8	19.8	670	20810172	
27 x 2.5 RE	0.7	1.8	23.4	920	20810175	
37 x 2.5 RE	0.7	1.8	26.1	1210	20810179	
48 x 2.5 RE	0.7	1.9	29.9	1550	20810183	
5 x 2.5 RM	0.7	1.8	13.0	250	20810115	
7 x 2.5 RM	0.7	1.8	14.0	310	20810207	
10 x 2.5 RM	0.7	1.8	17.4	420	20810116	
12 x 2.5 RM	0.7	1.8	18.0	490	20810186	
19 x 2.5 RM	0.7	1.8	21.0	710	20810189	
27 x 2.5 RM	0.7	1.8	24.9	980	20810192	
37 x 2.5 RM	0.7	1.8	27.8	1290	20810196	
48 x 2.5 RM	0.7	1.9	31.9	1650	20810200	

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