

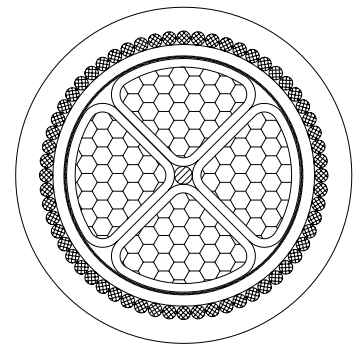
Power & Control Cable**IEC 60502-1****(2-, 3-, and 4-cores)****U₀/U 0.6 / 1 kV****XLPE-Insulation, Armour
2XYRY-fl****Application**

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.

Construction

Conductor	plain annealed copper, class 1 or class 2 resp., acc. to IEC 60228, ≤ 35 mm ² : circular solid (RE) or circular stranded (RM), > 35 mm ² : sector-shaped stranded (SM)
Insulation	cross-linked polyethylene XLPE
Colour code	Two-core: blue, brown Three-core: brown, black, grey Four-core: blue, brown, black, grey
Laying up	cores twisted in layers (if necessary with filling element(s))
Wrapping	at least 1 layer of plastic tape
Bedding	extruded polyvinyl chloride PVC, black
Armour	galvanized round steel wires
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	Temperature range:	
Flame propagation:	IEC 60332-3 cat. A	- 30 °C up to + 90 °C (during operation)	
Outer Sheath:		- 5 °C up to + 50 °C (during installation)	
Amount of halogen acid gas:	max. 17 % (IEC 60754-1)	max. +250 °C (under short circuit)	
Limiting Oxygen Index (LOI):	min. 30 % (IEC 60332-3 ann. B)		
Temperature Index (TI):	min. 300 °C (ASTM-D-2863)	Min. bending radius:	8 x cable-Ø

Abbreviations

2X	insulation of XLPE
Y	bedding & outer sheath of PVC
R	round steel wire armour
-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
Test voltage U_{rms} core:armour		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

Power & Control Cable								IEC 60502-1
(2-, 3-, and 4-cores)								U ₀ /U 0.6 / 1 kV
XLPE-Insulation, Armour 2XYRY-fl								
Geometrical Data								
No. of cores and cross-section (nom.) n / mm ²	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	Weight of cable (approx.) kg / km	Part number	
2 x 1.5 RE	0.7	7.3	0.8	1.8	12.7	310	20050038	
2 x 1.5 RM	0.7	7.8	0.8	1.8	13.2	330	20050154	
2 x 2.5 RE	0.7	8.1	0.8	1.8	13.5	350	20050039	
2 x 2.5 RM	0.7	8.6	0.8	1.8	14.0	370	20050155	
2 x 4 RE	0.7	9.1	0.8	1.8	14.5	410	20050040	
2 x 4 RM	0.7	9.8	0.8	1.8	15.2	440	20050156	
2 x 6 RE	0.7	10.1	0.8	1.8	15.5	480	20050041	
2 x 6 RM	0.7	10.8	0.8	1.8	16.2	510	20050042	
2 x 10 RE	0.7	11.6	0.8	1.8	17.0	600	20050043	
2 x 10 RM	0.7	12.8	1.25	1.8	18.9	770	20050044	
2 x 16 RE	0.7	13.5	1.25	1.8	19.6	890	20050045	
2 x 16 RM	0.7	14.9	1.25	1.8	21.0	960	20050046	
2 x 25 RM	0.9	18.3	1.6	1.8	25.1	1350	-	
2 x 35 RM	0.9	20.5	1.6	1.8	27.3	1620	-	
2 x 50 SM	1.0	19.2	1.6	1.9	26.0	1845	20050157	
2 x 70 SM	1.1	20.4	1.6	2.0	27.6	2310	20050049	
2 x 95 SM	1.1	23.5	2.0	2.1	31.7	3145	20050050	
2 x 120 SM	1.2	27.8	2.0	2.2	36.2	3865	20050051	
2 x 150 SM	1.4	31.0	2.0	2.3	39.6	4640	20050052	
2 x 185 SM	1.6	35.4	2.5	2.5	45.4	6090	20050053	
2 x 240 SM	1.7	39.5	2.5	2.7	49.9	7520	20050054	
2 x 300 SM	1.8	46.2	2.5	2.8	56.8	9360	20050221	
3 x 1.5 RE	0.7	7.8	0.8	1.8	13.2	340	20050057	
3 x 1.5 RM	0.7	8.3	0.8	1.8	13.7	360	20050158	
3 x 2.5 RE	0.7	8.6	0.8	1.8	14.0	390	20050058	
3 x 2.5 RM	0.7	9.2	0.8	1.8	14.6	410	20050159	
3 x 4 RE	0.7	9.6	0.8	1.8	15.0	460	20050059	
3 x 4 RM	0.7	10.4	0.8	1.8	15.8	510	20050160	
3 x 6 RE	0.7	10.7	0.8	1.8	16.1	550	20050060	
3 x 6 RM	0.7	11.5	0.8	1.8	16.9	600	20050161	
3 x 10 RE	0.7	12.4	1.25	1.8	18.5	830	20050061	
3 x 10 RM	0.7	13.5	1.25	1.8	19.6	890	20050162	
3 x 16 RE	0.7	14.5	1.25	1.8	20.6	1080	20050062	
3 x 16 RM	0.7	15.8	1.25	1.8	21.9	1150	20050163	
3 x 25 RM	0.9	19.6	1.6	1.8	26.4	1660	-	

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

Power & Control Cable

IEC 60502-1

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

U₀/U 0.6 / 1 kV

XLPE-Insulation, Armour

2XYRY-fl

Geometrical Data

No. of cores and cross-section (nom.) n / mm ²	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	Weight of cable (approx.) kg / km	Part number
3 x 35 RM	0.9	22.0	1.6	1.8	28.8	2050	-
3 x 50 SM	1.0	22.7	1.6	1.9	29.7	2500	20050166
3 x 70 SM	1.1	26.5	2.0	2.0	34.5	3540	20050167
3 x 95 SM	1.1	29.0	2.0	2.2	37.4	4440	20050168
3 x 120 SM	1.2	32.0	2.0	2.3	40.6	5280	20050169
3 x 150 SM	1.4	36.3	2.5	2.5	46.3	6810	20050170
3 x 185 SM	1.6	41.1	2.5	2.6	51.3	8200	20050063
3 x 240 SM	1.7	46.1	2.5	2.8	56.7	10310	20050171
3 x 300 SM	1.8	53.4	2.5	3.0	64.4	12900	20050064
3 x 400 SM	2.0	59.8	2.5	3.2	71.2	15860	20050065
4 x 1.5 RE	0.7	8.5	0.8	1.8	13.9	370	20050066
4 x 1.5 RM	0.7	9.0	0.8	1.8	14.4	400	20050067
4 x 2.5 RE	0.7	9.4	0.8	1.8	14.8	440	20050068
4 x 2.5 RM	0.7	10.0	0.8	1.8	15.4	460	20050172
4 x 4 RE	0.7	10.5	0.8	1.8	15.9	530	20050069
4 x 4 RM	0.7	11.4	0.8	1.8	16.8	580	20050173
4 x 6 RE	0.7	11.8	0.8	1.8	17.2	650	20050070
4 x 6 RM	0.7	12.7	1.25	1.8	18.8	800	20050071
4 x 10 RE	0.7	13.7	1.25	1.8	19.8	970	20050072
4 x 10 RM	0.7	14.9	1.25	1.8	21.0	1040	20050073
4 x 16 RE	0.7	15.9	1.6	1.8	22.7	1390	20050074
4 x 16 RM	0.7	17.5	1.6	1.8	24.3	1500	20050174
4 x 25 RM	0.9	21.6	1.6	1.8	28.4	1980	-
4 x 35 RM	0.9	24.0	1.6	1.9	31.0	2530	-
4 x 50 SM	1.0	26.3	1.6	2.0	33.5	3150	20050077
4 x 70 SM	1.1	29.7	2.0	2.0	37.7	4370	20050078
4 x 95 SM	1.1	33.2	2.0	2.3	41.8	5590	20050079
4 x 120 SM	1.2	37.1	2.5	2.5	47.1	7170	20050080
4 x 150 SM	1.4	41.1	2.5	2.6	51.3	8550	20050081
4 x 185 SM	1.6	46.6	2.5	2.8	57.2	10460	20050082
4 x 240 SM	1.7	53.0	2.5	3.0	64.0	13190	20050083
4 x 300 SM	1.8	59.0	2.5	3.2	70.4	16360	20050084
4 x 400 SM	2.0	69.7	3.15	3.5	83.0	21470	20050085

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

KERPEN's Focus:

Competence - Flexibility - Quality - Service

Flexibility

- new designs to customer required standards
- short delivery times to meet your project plan
- equipped for „short length“ production
- fast response to customer needs
- general purpose production equipment to manufacture large variety of products