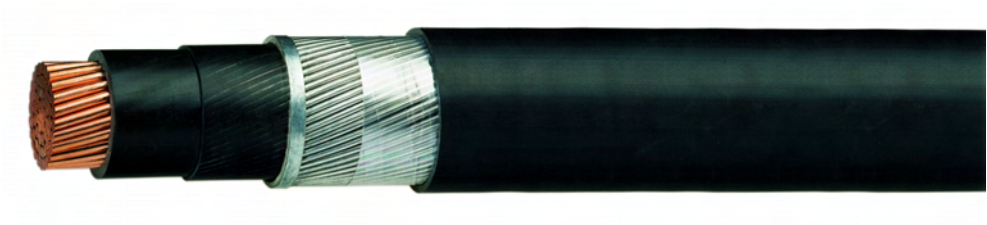
KERPEN
Competence in Cable Technology



Section 3:

Zero Halogen

Low Voltage Cables (90 °C)

U_0 /U 0.6 / 1 kV

Power & Control Cable — IEC 60502-1

(2-, 3-, 4,- and 5-cores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath

2XH

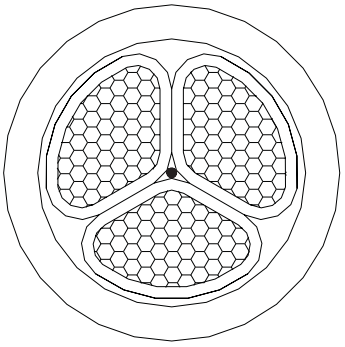
Application

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, ≤ 35 mm²: circular solid (RE) or circular stranded (RM), > 35 mm²: sector-shaped stranded (SM)[1]	
Insulation	cross-linked polyethylene XLPE	
Colour code[1) 2)]	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	
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	



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 %
Temperature Index (TI):	(IEC 60332-3 ann. B) 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	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 U_o/U		V	600/1000
Highest system voltage U_m :	max.	V	1200 (for three phase systems)

[1)] 5core cables only with circular conductors [2)] other colours on request

For further details see appendix

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Power & Control Cable — IEC 60502-1

(2-, 3-, 4,- and 5-cores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath

2XH

Geometrical Data

No. of cores and cross-section (nom.) n / mm²	Radial thickness of insulation (nom.) mm	Radial thickness of outer sheath (nom.) mm	Overall Diameter (approx.) mm	Weigth of cable (approx.) kg / km	Part number
2 x 1.5 RE	0.7	1.8	9.7	140	22220000
2 x 1.5 RM	0.7	1.8	10.2	150	22220001
2 x 2.5 RE	0.7	1.8	10.5	170	22220002
2 x 2.5 RM	0.7	1.8	11.0	180	22220003
2 x 4 RE	0.7	1.8	11.5	210	22220004
2 x 4 RM	0.7	1.8	12.2	230	22220005
2 x 6 RE	0.7	1.8	12.5	270	22220006
2 x 6 RM	0.7	1.8	13.2	290	22220007
2 x 10 RE	0.7	1.8	14.0	370	22220008
2 x 10 RM	0.7	1.8	15.0	410	22220009
2 x 16 RE	0.7	1.8	15.9	530	22220010
2 x 16 RM	0.7	1.8	17.3	580	22220011
2 x 25 RM	0.9	1.8	20.2	740	-
2 x 35 RM	0.9	1.8	22.8	1100	-
2 x 50 SM	1.0	1.8	21.5	1200	22220014
2 x 70 SM	1.1	1.8	24.9	1620	22220015
2 x 95 SM	1.1	2.0	28.0	2200	22220016
2 x 120 SM	1.2	2.1	30.1	2640	22220017
3 x 1.5 RE	0.7	1.8	10.2	150	22220018
3 x 1.5 RM	0.7	1.8	10.7	170	22220019
3 x 2.5 RE	0.7	1.8	11.0	190	22220020
3 x 2.5 RM	0.7	1.8	11.6	210	22220021
3 x 4 RE	0.7	1.8	12.0	250	22220022
3 x 4 RM	0.7	1.8	12.8	280	22220023
3 x 6 RE	0.7	1.8	13.1	330	22220024
3 x 6 RM	0.7	1.8	13.9	350	22220025
3 x 10 RE	0.7	1.8	14.8	470	22220026
3 x 10 RM	0.7	1.8	15.9	500	22220027
3 x 16 RE	0.7	1.8	16.9	670	22220028
3 x 16 RM	0.7	1.8	18.3	730	22220029
3 x 25 RM	0.9	1.8	21.5	1060	-
3 x 35 RM	0.9	1.8	24.3	1450	-
3 x 50 SM	1.0	1.8	25.0	1710	22220032
3 x 70 SM	1.1	1.9	28.6	2320	22220033
3 x 95 SM	1.1	2.0	31.3	3150	22220034

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

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Power & Control Cable — IEC 60502-1

(2-, 3-, 4,- and 5-cores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath

2XH

Geometrical Data

No. of cores and cross-section (nom.) n / mm²	Radial thickness of insulation (nom.) mm	Radial thickness of outer sheath (nom.) mm	Overall Diameter (approx.) mm	Weigth of cable (approx.) kg / km	Part number
4 x 1.5 RE	0.7	1.8	10.9	180	22220035
4 x 1.5 RM	0.7	1.8	11.4	190	22220036
4 x 2.5 RE	0.7	1.8	11.8	230	22220037
4 x 2.5 RM	0.7	1.8	12.4	240	22220038
4 x 4 RE	0.7	1.8	12.9	300	22220039
4 x 4 RM	0.7	1.8	13.8	330	22220040
4 x 6 RE	0.7	1.8	14.2	400	22220041
4 x 6 RM	0.7	1.8	15.0	420	22220042
4 x 10 RE	0.7	1.8	16.1	580	22220043
4 x 10 RM	0.7	1.8	17.3	620	22220044
4 x 16 RE	0.7	1.8	18.3	840	22220045
4 x 16 RM	0.7	1.8	19.9	910	22220046
4 x 25 RM	0.9	1.8	23.5	1400	-
4 x 35 RM	0.9	1.8	26.5	1700	-
4 x 50 SM	1.0	1.9	28.8	2240	22220049
4 x 70 SM	1.1	2.0	32.5	3050	22220050
5 x 4 RE	0.7	1.8	14.0	360	22220055
5 x 4 RM	0.7	1.8	14.9	370	22220056
5 x 6 RE	0.7	1.8	15.4	470	22220057
5 x 6 RM	0.7	1.8	16.3	500	22220058
5 x 10 RE	0.7	1.8	17.5	690	22220059
5 x 10 RM	0.7	1.8	18.8	730	22220060
5 x 16 RE	0.7	1.8	20.0	1010	22220061
5 x 16 RM	0.7	1.8	21.8	1080	22220062
5 x 25 RM	0.9	1.8	25.8	1650	22220063
5 x 35 RM	0.9	1.8	28.8	2120	22220064
5 x 50 RM	1.0	1.8	32.9	2840	22220065

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

KERPEN's Focus:

Competence - Flexibility - Quality - Service

Quality

- new designs to customer required standards
- one of the first with ISO 9001 certificate (1990)
  ISO 9001:2000 (2002)
- first cable manufacturer with ISO 14001 environment certificate (1998)
- test certificates for every drum length
- special certificates for fire resistant cables
- UL approvals, GOST certificates
- acceptance through inspection companies

Power & Control Cable — IEC 60502-1

(Multicores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath

2XH

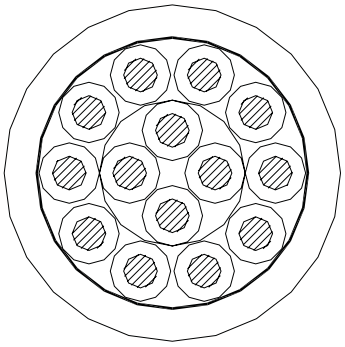
Application

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-∅

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 U_o/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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Power & Control Cable — IEC 60502-1

(Multicores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, LSZH-Sheath

2XH

Geometrical Data

No. of cores and cross-section (nom.) n / mm²	Radial thickness of insulation (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	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

Power & Control Cable — IEC 60502-1

(2-, 3-, and 4-cores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, Armour, LSZH-Sheath

2XHRH

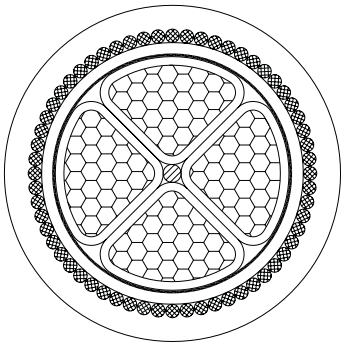
Application

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, ≤ 35 mm²: circular solid (RE) or circular stranded (RM), > 35 mm²: sector-shaped stranded (SM)	
Insulation	cross-linked polyethylene XLPE	
Colour code [1]	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 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)

[1] other colours on request

For further details see appendix

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Power & Control Cable — IEC 60502-1

(2-, 3-, and 4-cores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, Armour, LSZH-Sheath

2XHRH

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
2 x 1.5 RE	0.7	7.3	0.8	1.8	12.7	310	21380071
2 x 1.5 RM	0.7	7.8	0.8	1.8	13.2	330	21380072
2 x 2.5 RE	0.7	8.1	0.8	1.8	13.5	350	21380073
2 x 2.5 RM	0.7	8.6	0.8	1.8	14.0	370	21380074
2 x 4 RE	0.7	9.1	0.8	1.8	14.5	410	21380075
2 x 4 RM	0.7	9.8	0.8	1.8	15.2	440	21380076
2 x 6 RE	0.7	10.1	0.8	1.8	15.5	480	21380077
2 x 6 RM	0.7	10.8	0.8	1.8	16.2	510	21380078
2 x 10 RE	0.7	11.6	0.8	1.8	17.0	600	21380079
2 x 10 RM	0.7	12.8	1.25	1.8	18.9	770	21380080
2 x 16 RE	0.7	13.5	1.25	1.8	19.6	890	21380081
2 x 16 RM	0.7	14.9	1.25	1.8	21.0	960	21380082
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	21380085
2 x 70 SM	1.1	20.4	1.6	2.0	27.6	2310	21380086
2 x 95 SM	1.1	23.5	2.0	2.1	31.7	3145	21380087
2 x 120 SM	1.2	27.8	2.0	2.2	36.2	3865	21380088
2 x 150 SM	1.4	31.0	2.0	2.3	39.6	4640	21380089
2 x 185 SM	1.6	35.4	2.5	2.5	45.4	6090	21380090
2 x 240 SM	1.7	39.5	2.5	2.7	49.9	7520	21380091
2 x 300 SM	1.8	46.2	2.5	2.8	56.8	9360	21380092
3 x 1.5 RE	0.7	7.8	0.8	1.8	13.2	320	21380023
3 x 1.5 RM	0.7	8.3	0.8	1.8	13.7	340	21380010
3 x 2.5 RE	0.7	8.6	0.8	1.8	14.0	390	21380037
3 x 2.5 RM	0.7	9.2	0.8	1.8	14.6	410	21380050
3 x 4 RE	0.7	9.6	0.8	1.8	15.0	460	21380093
3 x 4 RM	0.7	10.4	0.8	1.8	15.8	510	21380094
3 x 6 RE	0.7	10.7	0.8	1.8	16.1	550	21380095
3 x 6 RM	0.7	11.5	0.8	1.8	16.9	600	21380096
3 x 10 RE	0.7	12.4	1.25	1.8	18.5	830	21380097
3 x 10 RM	0.7	13.5	1.25	1.8	19.6	890	21380098
3 x 16 RE	0.7	14.5	1.25	1.8	20.6	1080	21380099
3 x 16 RM	0.7	15.8	1.25	1.8	21.9	1150	21380100
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

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Power & Control Cable — IEC 60502-1

(2-, 3-, and 4-cores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, Armour, LSZH-Sheath

2XHRH

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
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	21380103
3 x 70 SM	1.1	26.5	2.0	2.0	34.5	3540	21380104
3 x 95 SM	1.1	29.0	2.0	2.2	37.4	4440	21380105
3 x120 SM	1.2	32.0	2.0	2.3	40.6	5280	21380106
3 x150 SM	1.4	36.3	2.5	2.5	46.3	6810	21380107
3 x185 SM	1.6	41.1	2.5	2.6	51.3	8200	21380108
3 x240 SM	1.7	46.1	2.5	2.8	56.7	10310	21380109
3 x300 SM	1.8	53.4	2.5	3.0	64.4	12900	21380110
3 x400 SM	2.0	59.8	2.5	3.2	71.2	15860	21380111
4 x 1.5 RE	0.7	8.5	0.8	1.8	13.9	370	21380024
4 x 1.5 RM	0.7	9.0	0.8	1.8	14.4	400	21380011
4 x 2.5 RE	0.7	9.4	0.8	1.8	14.8	440	21380038
4 x 2.5 RM	0.7	10.0	0.8	1.8	15.4	460	21380051
4 x 4 RE	0.7	10.5	0.8	1.8	15.9	530	21380112
4 x 4 RM	0.7	11.4	0.8	1.8	16.8	580	21380113
4 x 6 RE	0.7	11.8	0.8	1.8	17.2	650	21380114
4 x 6 RM	0.7	12.7	1.25	1.8	18.8	800	21380115
4 x 10 RE	0.7	13.7	1.25	1.8	19.8	970	21380116
4 x 10 RM	0.7	14.9	1.25	1.8	21.0	1040	21380117
4 x 16 RE	0.7	15.9	1.6	1.8	22.7	1390	21380118
4 x 16 RM	0.7	17.5	1.6	1.8	24.3	1500	21380119
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	21380122
4 x 70 SM	1.1	29.7	2.0	2.0	37.7	4370	21380123
4 x 95 SM	1.1	33.2	2.0	2.3	41.8	5590	21380124
4 x120 SM	1.2	37.1	2.5	2.5	47.1	7170	21380125
4 x150 SM	1.4	41.1	2.5	2.6	51.3	8550	21380126
4 x185 SM	1.6	46.6	2.5	2.8	57.2	10460	21380127
4 x240 SM	1.7	53.0	2.5	3.0	64.0	13190	21380128
4 x300 SM	1.8	59.0	2.5	3.2	70.4	16360	21380129
4 x400 SM	2.0	69.7	3.15	3.5	83.0	21470	21380130

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

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KERPEN's Focus:

Competence - Flexibility - Quality - Service

Service

- consultation for technical and economical solutions
- engineering service to meet customer requirements
- availability of production schedules, progress reports, technical specifications, data sheets, ...
- ex stock deliveries for various standards, stock in different countries
- world wide logistic and international documentation know how

Power & Control Cable — IEC 60502-1

(Multicores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, Armour, LSZH-Sheath

2XHRH

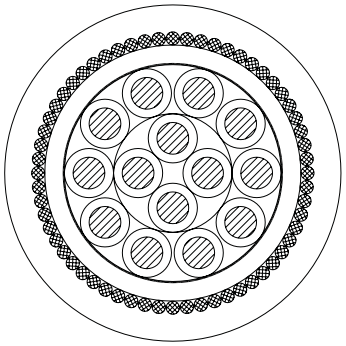
Application

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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Power & Control Cable — IEC 60502-1

(Mulicores) — U_0/U 0.6 / 1 kV

XLPE-Insulation, Armour, LSZH-Sheath

2XHRH

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