



Section 1:

PVC - Insulated

Low Voltage Cables (70 °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

PVC-Insulation, PVC-Sheath

YY-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 or 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,
 $\leq 35 \text{ mm}^2$: circular solid (RE) or circular stranded (RM),
 $> 35 \text{ mm}^2$: sector-shaped stranded (SM)¹⁾

Insulation polyvinyl chloride PVC

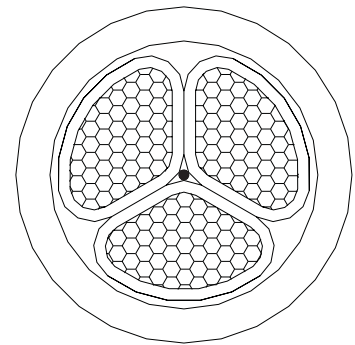
Colour code²⁾ 2-core: blue, brown
 3-core: brown, black, grey
 4-core: blue, brown, black, grey
 5-core: blue, brown, black, grey, black

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

Inner Covering extruded filler of regenerated rubber

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 + 70 °C
 (during operation)
 - 5° C up to +50 °C
 (during installation)
 $\leq 300 \text{ mm}^2$: max. +160 °C
 $> 300 \text{ mm}^2$: max. +140 °C
 (under short circuit)

Min. bending radius:
 8 x cable-Ø

Abbreviations

Y insulation & outer sheath of PVC

-fl reduced flame propagation

Electrical Data at 20 °C

	Character	Unit	Values
Conductor resistance	max.	Ohm/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)

¹⁾ 5core cables only with circular conductors

²⁾ other colours on request

for further details see appendix

Power & Control Cable					IEC 60502-1	
(2-, 3-, 4- and 5-cores)					U ₀ /U 0.6 / 1 kV	
PVC-Insulation, PVC-Sheath YY-fl						
Geometrical Data						
No. of cores and cross-section		Radial thickness of insulation	Radial thickness of outer sheath	Overall diameter	Weigth of cable	Part number
(nom.) n / mm²		(nom.) mm	(nom.) mm	(approx.) mm	(approx.) kg / km	
2 x	1.5 RE	0.8	1.8	10.1	150	20230251
2 x	1.5 RM	0.8	1.8	10.6	160	20230003
2 x	2.5 RE	0.8	1.8	10.9	190	20230252
2 x	2.5 RM	0.8	1.8	11.4	200	20230253
2 x	4 RE	1.0	1.8	12.7	260	20230254
2 x	4 RM	1.0	1.8	13.4	290	20230255
2 x	6 RE	1.0	1.8	13.7	320	20230256
2 x	6 RM	1.0	1.8	14.4	350	20230257
2 x	10 RE	1.0	1.8	15.2	430	20230258
2 x	10 RM	1.0	1.8	16.3	480	20230259
2 x	16 RE	1.0	1.8	17.1	600	20230260
2 x	16 RM	1.0	1.8	18.5	660	20230261
2 x	25 RM	1.2	1.8	21.4	920	-
2 x	35 RM	1.2	1.8	23.6	1020	-
2 x	50 SM	1.4	1.8	23.1	1320	20230264
2 x	70 SM	1.4	1.9	26.3	1730	20230265
2 x	95 SM	1.6	2.0	30.0	2360	20230266
2 x	120 SM	1.6	2.1	31.9	2850	20230267
2 x	150 SM	1.8	2.2	35.3	3480	20230268
2 x	185 SM	2.0	2.4	39.7	4340	20230269
2 x	240 SM	2.2	2.6	44.6	5600	20230270
2 x	300 SM	2.4	2.7	51.7	7200	20230013
3 x	1.5 RE	0.8	1.8	10.6	170	20230271
3 x	1.5 RM	0.8	1.8	11.1	190	20230272
3 x	2.5 RE	0.8	1.8	11.5	220	20230273
3 x	2.5 RM	0.8	1.8	12.0	230	20230274
3 x	4 RE	1.0	1.8	13.3	300	20230275
3 x	4 RM	1.0	1.8	14.1	310	20230276
3 x	6 RE	1.0	1.8	14.4	390	20230277
3 x	6 RM	1.0	1.8	15.2	410	20230278
3 x	10 RE	1.0	1.8	16.1	540	20230279
3 x	10 RM	1.0	1.8	17.2	580	20230280
3 x	16 RE	1.0	1.8	18.2	750	20230281
3 x	16 RM	1.0	1.8	19.6	820	20230282
3 x	25 RM	1.2	1.8			

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

Power & Control Cable

IEC 60502-1

(2-, 3-, 4- and 5-cores)

U₀/U 0.6 / 1 kV

PVC-Insulation, PVC-Sheath

YY-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
3 x 35 RM	1.2	1.8			
3 x 50 SM	1.4	1.8	26.8	1870	20230285
3 x 70 SM	1.4	2.0	30.2	2510	20230286
3 x 95 SM	1.6	2.1	33.7	3410	20230287
3 x 120 SM	1.6	2.2	36.2	4080	20230288
3 x 150 SM	1.8	2.3	40.3	5010	20230289
3 x 185 SM	2.0	2.5	45.8	6290	20230290
3 x 240 SM	2.2	2.7	51.8	8170	20230291
3 x 300 SM	2.4	2.8	59.4	10460	20230292
3 x 400 SM	2.6	3.1	66.5	13260	20230293
4 x 1.5 RE	0.8	1.8	11.4	190	20230294
4 x 1.5 RM	0.8	1.8	11.9	200	20230295
4 x 2.5 RE	0.8	1.8	12.3	240	20230296
4 x 2.5 RM	0.8	1.8	12.9	250	20230297
4 x 4 RE	1.0	1.8	14.4	340	20230298
4 x 4 RM	1.0	1.8	15.3	370	20230299
4 x 6 RE	1.0	1.8	15.6	440	20230300
4 x 6 RM	1.0	1.8	16.5	470	20230301
4 x 10 RE	1.0	1.8	17.6	640	20230302
4 x 10 RM	1.0	1.8	19.0	680	20230303
4 x 16 RE	1.0	1.8	19.8	910	20230304
4 x 16 RM	1.0	1.8	21.4	980	20230305
4 x 25 RM	1.2	1.8	25.3	1530	-
4 x 35 RM	1.2	1.8	28.0	2000	-
4 x 50 SM	1.4	1.9	30.8	2400	20230308
4 x 70 SM	1.4	2.1	34.2	3210	20230309
4 x 95 SM	1.6	2.2	38.4	4440	20230310
4 x 120 SM	1.6	2.3	41.6	5390	20230311
4 x 150 SM	1.8	2.5	46.0	6620	20230312
4 x 185 SM	2.0	2.7	50.4	8240	20230313
4 x 240 SM	2.2	2.9	59.0	10770	20230314
4 x 300 SM	2.4	3.1	66.1	13780	20230315
4 x 400 SM	2.6	3.4	77.0	17580	20230316
5 x 4 RE	1.0	1.8	15.7	440	20230317
5 x 4 RM	1.0	1.8	16.6	470	20230318

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

Power & Control Cable

IEC 60502-1

(Multicores)

U_0/U 0.6/1 kV

PVC-Insulation, PVC-Sheath

YY-fl

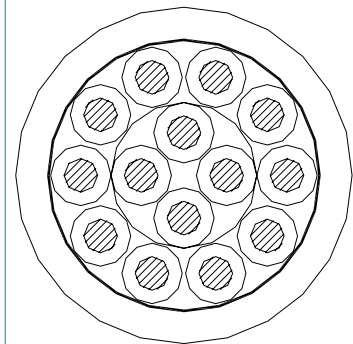
Application

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, $\leq 35 \text{ mm}^2$: circular solid (RE) or circular stranded (RM), $> 35 \text{ mm}^2$: sector-shaped stranded (SM)
Insulation	polyvinyl chloride PVC
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 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

Abbreviations

Flame retardancy:	IEC 60332-1	Temperature range:	Y insulation, bedding & outer sheath of PVC
Flame propagation:	IEC 60332-3 cat. A	-30 °C up to +70 °C (during operation)	R round steel wire armour
Outer Sheath:		-5 °C up to +50 °C (during installation)	-fl reduced flame propagation
Amount of halogen acid gas:	max. 17 % (IEC 60754-1)	$\leq 300 \text{ mm}^2$: max. +160 °C $> 300 \text{ mm}^2$: max. +140 °C (under short circuit)	
Limiting Oxygen Index (LOI):	min. 30 % (IEC 60332-3 ann. B)		
Temperatur Index (TI):	min. 300 °C (ASTM-D-2863)	Min. bending radius: 8 x cable-Ø	

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_0/U		V	600 / 1000
Highest system voltage U_m	max.	V	1200 (for three phase systems)

For further electrical details see appendix

Power & Control Cable							IEC 60502-1	
(multicores)							U ₀ /U 0.6/1 kV	
PVC-Insulation, PVC-Sheath								
YY-fl								
Geometrical Data								
No. of cores and cross-section			Radial thickness of insulation	Radial thickness of outer sheath	Overall diameter	Weigth of cable	Part number	
(nom.) n / mm²			(nom.) mm	(nom.) mm	(approx.) mm	(approx.) kg / km		
5 x	1.5	RE	0.8	1.8	11.9	190	20230045	
7 x	1.5	RE	0.8	1.8	12.8	230	20230046	
10 x	1.5	RE	0.8	1.8	15.7	330	20230047	
12 x	1.5	RE	0.8	1.8	16.2	360	20230048	
19 x	1.5	RE	0.8	1.8	18.7	510	20230049	
27 x	1.5	RE	0.8	1.8	22.2	700	20230050	
37 x	1.5	RE	0.8	1.8	24.8	920	20230051	
48 x	1.5	RE	0.8	1.9	28.3	1160	20230052	
5 x	1.5	RM	0.8	1.8	12.4	210	20230053	
7 x	1.5	RM	0.8	1.8	13.4	270	20230000	
10 x	1.5	RM	0.8	1.8	16.6	360	20230009	
12 x	1.5	RM	0.8	1.8	17.1	380	20230054	
19 x	1.5	RM	0.8	1.8	19.9	540	20230055	
27 x	1.5	RM	0.8	1.8	23.6	740	20230056	
37 x	1.5	RM	0.8	1.8	26.3	970	20230057	
48 x	1.5	RM	0.8	1.9	30.1	1230	20230058	
5 x	2.5	RE	0.8	1.8	13.0	260	20230059	
7 x	2.5	RE	0.8	1.8	14.0	320	20230060	
10 x	2.5	RE	0.8	1.8	17.2	420	20230061	
12 x	2.5	RE	0.8	1.8	17.8	490	20230062	
19 x	2.5	RE	0.8	1.8	20.8	710	20230063	
27 x	2.5	RE	0.8	1.8	24.6	970	20230064	
37 x	2.5	RE	0.8	1.9	27.4	1270	20230065	
48 x	2.5	RE	0.8	2.0	31.7	1650	20230066	
5 x	2.5	RM	0.8	1.8	13.6	270	20230067	
7 x	2.5	RM	0.8	1.8	14.7	330	20230068	
10 x	2.5	RM	0.8	1.8	18.2	440	20230069	
12 x	2.5	RM	0.8	1.8	18.8	520	20230070	
19 x	2.5	RM	0.8	1.8	22.0	810	20230031	
27 x	2.5	RM	0.8	1.8	26.1	1030	20230071	
37 x	2.5	RM	0.8	1.9	29.5	1370	20230072	
48 x	2.5	RM	0.8	2.0	33.8	1750	20230073	

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

PVC-Insulation, Armour

YYRY-fl

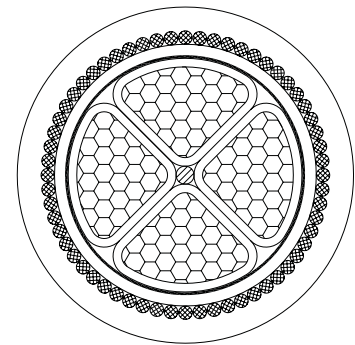
Application

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, $\leq 35 \text{ mm}^2$: circular solid (RE) or circular stranded (RM), $> 35 \text{ mm}^2$: sector-shaped stranded (SM)
Insulation	polyvinyl chloride PVC
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 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

Abbreviations

Flame retardancy:	IEC 60332-1	Temperature range:	Y insulation, bedding & outer sheath of PVC
Flame propagation:	IEC 60332-3 cat. A	- 30 °C up to + 70 °C (during operation)	R round steel wire armour
Outer Sheath:		- 5 °C up to + 50 °C (during installation)	-fl reduced flame propagation
Amount of halogen acid gas:	max. 17 % (IEC 60754-1)	$\leq 300 \text{ mm}^2$: max. + 160 °C	
Limiting Oxygen Index (LOI):	min. 30 %	$> 300 \text{ mm}^2$: max. + 140 °C (under short circuit)	
Temperatur Index (TI):	(IEC 60332-3 ann. B) min. 300 °C (ASTM-D-2863)	Min. bending radius: 8 x cable-Ø	

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_0/U		V	600 / 1000
Highest system voltage U_m	max.	V	1200 (for three phase systems)

¹⁾ other colours on request

further details see appendix

Power & Control Cable							IEC 60502-1	
(2-, 3-, and 4-cores)							U ₀ /U 0.6 / 1 kV	
PVC-Insulation,Armour YYRY-fl								
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	Weight of cable (approx.) kg / km	Part number	
2 x 1.5 RE	0.8	7.7	0.8	1.8	13.1	320	20300006	
2 x 1.5 RM	0.8	8.2	0.8	1.8	13.6	340	20300007	
2 x 2.5 RE	0.8	8.5	0.8	1.8	13.9	360	20300008	
2 x 2.5 RM	0.8	9.0	0.8	1.8	14.4	380	20300009	
2 x 4 RE	1.0	10.3	0.8	1.8	15.7	450	20300010	
2 x 4 RM	1.0	11.0	0.8	1.8	16.4	490	20300011	
2 x 6 RE	1.0	11.3	1.25	1.8	17.4	610	20300012	
2 x 6 RM	1.0	12.0	1.25	1.8	18.1	650	20300013	
2 x 10 RE	1.0	12.8	1.25	1.8	18.9	750	20300014	
2 x 10 RM	1.0	13.8	1.25	1.8	19.9	790	20300015	
2 x 16 RE	1.0	14.7	1.25	1.8	20.8	930	20300016	
2 x 16 RM	1.0	16.0	1.25	1.8	22.1	1020	20300017	
2 x 25 RM	1.2	19.5	1.6	1.8	26.3	1400	-	
2 x 35 RM	1.2	21.7	1.6	1.8	28.5	1700	-	
2 x 50 SM	1.4	20.8	1.6	1.9	27.8	2050	20300020	
2 x 70 SM	1.4	23.8	2.0	2.0	31.8	2740	20300021	
2 x 95 SM	1.6	27.7	2.0	2.2	36.1	3640	20300022	
2 x120 SM	1.6	29.4	2.0	2.3	38.0	4150	20300023	
2 x150 SM	1.8	32.6	2.5	2.4	42.4	5300	20300024	
2 x185 SM	2.0	37.0	2.5	2.6	47.2	6390	20300025	
2 x240 SM	2.2	41.5	2.5	2.8	52.1	7920	20300026	
2 x300 SM	2.4	48.6	2.5	2.9	59.4	9950	20300180	
3 x 1.5 RE	0.8	8.2	0.8	1.8	13.6	360	20300029	
3 x 1.5 RM	0.8	8.7	0.8	1.8	14.1	370	20300030	
3 x 2.5 RE	0.8	9.1	0.8	1.8	14.5	400	20300150	
3 x 2.5 RM	0.8	9.6	0.8	1.8	15.0	430	20300031	
3 x 4 RE	1.0	10.9	1.25	1.8	17.0	610	20300032	
3 x 4 RM	1.0	11.7	1.25	1.8	17.8	660	20300033	
3 x 6 RE	1.0	12.0	1.25	1.8	18.1	730	20300034	
3 x 6 RM	1.0	12.8	1.25	1.8	18.9	780	20300035	
3 x 10 RE	1.0	13.7	1.25	1.8	19.8	910	20300036	
3 x 10 RM	1.0	15.0	1.25	1.8	21.1	990	20300037	
3 x 16 RE	1.0	15.8	1.25	1.8	21.9	1160	20300038	
3 x 16 RM	1.0	17.3	1.25	1.8	23.4	1280	20300039	
3 x 25 RM	1.2	20.8	1.6	1.8	27.6	1890	-	

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

PVC-Insulation, Armour

YYRY-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	1.2	23.2	1.6	1.8	30.0	2260	-
3 x 50 SM	1.4	24.5	1.6	2.0	31.7	2740	20300042
3 x 70 SM	1.4	27.9	2.0	2.1	36.1	3790	20300043
3 x 95 SM	1.6	31.2	2.0	2.2	39.6	4780	20300044
3 x 120 SM	1.6	33.7	2.0	2.3	42.3	5710	20300045
3 x 150 SM	1.8	38.0	2.5	2.5	48.0	7200	20300046
3 x 185 SM	2.0	42.9	2.5	2.7	53.3	8710	20300047
3 x 240 SM	2.2	48.7	2.5	2.9	59.5	11030	20300048
3 x 300 SM	2.4	56.1	2.5	3.2	67.5	13760	20300049
3 x 400 SM	2.6	62.8	3.15	3.4	75.9	17780	20300050
4 x 1.5 RE	0.8	9.0	0.8	1.8	14.4	410	20300151
4 x 1.5 RM	0.8	9.5	0.8	1.8	14.9	430	20300051
4 x 2.5 RE	0.8	9.9	0.8	1.8	15.3	470	20300052
4 x 2.5 RM	0.8	10.5	0.8	1.8	15.9	500	20300053
4 x 4 RE	1.0	12.0	1.25	1.8	18.1	700	20300054
4 x 4 RM	1.0	12.9	1.25	1.8	19.0	780	20300055
4 x 6 RE	1.0	13.2	1.25	1.8	19.3	850	20300056
4 x 6 RM	1.0	14.1	1.25	1.8	20.2	900	20300057
4 x 10 RE	1.0	15.2	1.25	1.8	21.2	1030	20300058
4 x 10 RM	1.0	16.6	1.25	1.8	22.7	1180	20300059
4 x 16 RE	1.0	17.8	1.6	1.8	24.6	1580	20300060
4 x 16 RM	1.0	19.5	1.6	1.8	26.3	1710	20300061
4 x 25 RM	1.2	23.0	1.6	1.8	29.8	2140	-
4 x 35 RM	1.2	25.7	1.6	1.9	32.7	2650	-
4 x 50 SM	1.4	28.7	2.0	2.1	36.9	3710	20300064
4 x 70 SM	1.4	31.7	2.0	2.2	40.1	4720	20300065
4 x 95 SM	1.6	36.1	2.5	2.4	45.5	6320	20300066
4 x 120 SM	1.6	39.1	2.5	2.5	49.1	7630	20300067
4 x 150 SM	1.8	43.1	2.5	2.7	53.5	9050	20300068
4 x 185 SM	2.0	49.0	2.5	2.8	59.6	11010	20300069
4 x 240 SM	2.2	55.5	2.5	3.1	66.7	13940	20300070
4 x 300 SM	2.4	62.0	3.15	3.3	74.9	18090	20300071
4 x 400 SM	2.6	72.7	3.15	3.6	86.2	22600	20300072

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

KERPEN's Focus:

Competence - Flexibility - Quality - Service

Competence

- cable engineering to over 150 national, international and customer standards
- specification service based on electrical, mechanical, environmental and other customer/site requirements
- more than 30.000 designs
- key supplier to oil, gas, petrochemical and chemical industry
- consulting service for design

Power & Control Cable

IEC 60502-1

(Multicores)

U_0/U 0.6 / 1 kV

PVC-Insulation, Armour

YYRY-fl

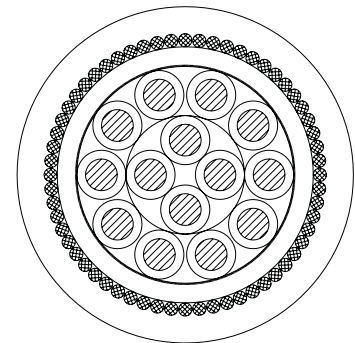
Application

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 class 1: circular solid (RE) class 2: circular stranded (RM)
Insulation	polyvinylchlorid PVC
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 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

Abbreviations

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 + 70 °C (during operation)
- 5 °C up to + 50 °C (during installation)
max. + 160 °C (under short circuit)
Min. bending radius:
8 x cable-Ø

Y	insulation, 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 U_0/U		V	600/1000
Highest system voltage U_m	max.	V	1200 (for three phase systems)

For further electrical details see appendix

Power & Control Cable							IEC 60502-1
(Multicores)							U ₀ /U 0.6 / 1 kV
PVC-Insulation, Armour YYRY-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.) m	Weight of cable (approx.) kg / km	Part number
5 x 1.5 RE	0.8	9.8	0.8	1.8	15.2	450	20300084
7 x 1.5 RE	0.8	10.7	0.8	1.8	16.1	520	20300085
10 x 1.5 RE	0.8	13.7	1.25	1.8	19.8	790	20300086
12 x 1.5 RE	0.8	14.1	1.25	1.8	20.2	850	20300087
19 x 1.5 RE	0.8	17.1	1.6	1.8	23.9	1260	20300090
27 x 1.5 RE	0.8	20.6	1.6	1.8	27.4	1610	20300093
37 x 1.5 RE	0.8	23.1	1.6	1.9	30.1	1950	20300096
48 x 1.5 RE	0.8	26.5	1.6	2.0	33.7	2380	20300100
5 x 1.5 RM	0.8	10.4	0.8	1.8	15.8	480	20300101
7 x 1.5 RM	0.8	11.4	0.8	1.8	16.8	560	20300102
10 x 1.5 RM	0.8	14.5	1.25	1.8	20.6	850	20300103
12 x 1.5 RM	0.8	15.1	1.25	1.8	21.2	910	20300104
19 x 1.5 RM	0.8	18.3	1.6	1.8	25.1	1360	20300107
27 x 1.5 RM	0.8	21.9	1.6	1.8	28.7	1730	20300110
37 x 1.5 RM	0.8	24.6	1.6	1.9	31.6	2040	20300113
48 x 1.5 RM	0.8	28.7	2.0	2.0	36.7	2810	20300117
5 x 2.5 RE	0.8	10.9	0.8	1.8	16.3	540	20300152
7 x 2.5 RE	0.8	11.9	1.25	1.8	18.0	690	20300118
10 x 2.5 RE	0.8	15.2	1.25	1.8	21.3	950	20300119
12 x 2.5 RE	0.8	15.7	1.25	1.8	21.8	1030	20300120
19 x 2.5 RE	0.8	19.1	1.6	1.8	25.9	1560	20300123
27 x 2.5 RE	0.8	23.0	1.6	1.9	30.0	2010	20300125
37 x 2.5 RE	0.8	25.8	1.6	2.0	33.0	2450	20300128
48 x 2.5 RE	0.8	30.1	2.0	2.1	38.3	3330	20300132
5 x 2.5 RM	0.8	11.6	0.8	1.8	17.0	570	20300133
7 x 2.5 RM	0.8	12.6	1.25	1.8	18.7	770	20300134
10 x 2.5 RM	0.8	16.2	1.25	1.8	22.3	1010	20300135
12 x 2.5 RM	0.8	16.8	1.25	1.8	22.9	1110	20300136
19 x 2.5 RM	0.8	20.4	1.6	1.8	27.2	1650	20300139
27 x 2.5 RM	0.8	24.5	1.6	1.9	31.5	2130	20300142
37 x 2.5 RM	0.8	27.6	1.6	2.0	34.8	2630	20300145
48 x 2.5 RM	0.8	32.1	2.0	2.1	40.3	3550	20300149

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