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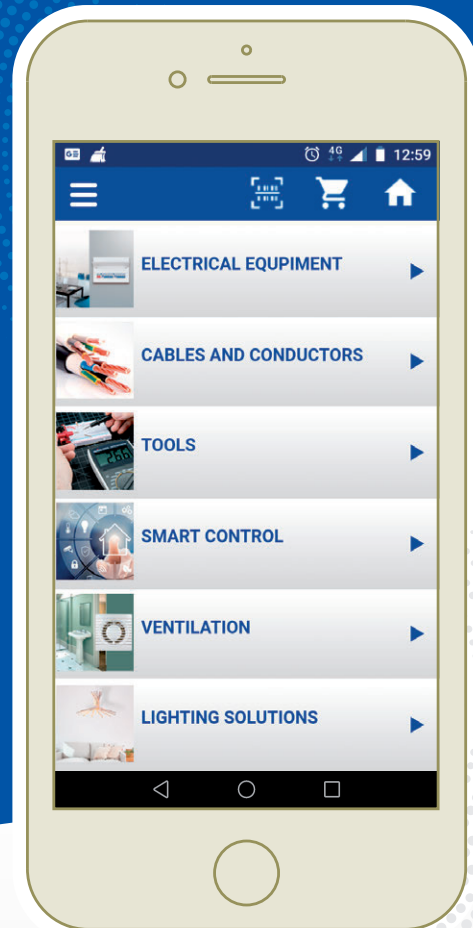
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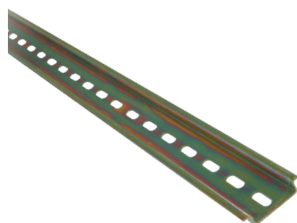


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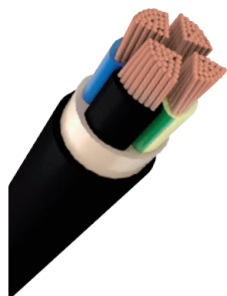
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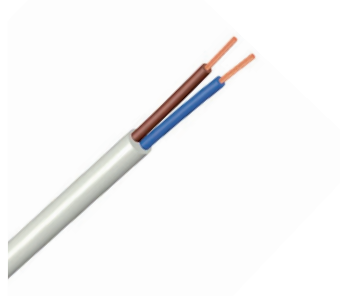
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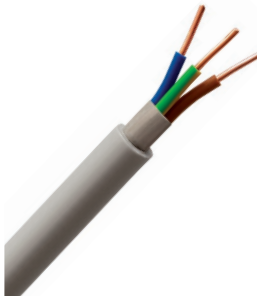
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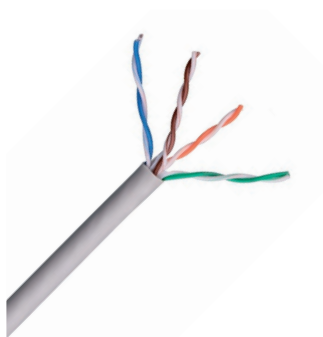
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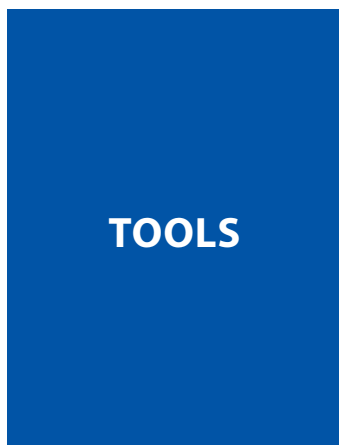
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OUTSIDE POWER CABLES



Standards:

DIN VDE 0293-308 - Colour coded acc
 DIN VDE 0276 part 603 or HD 186
 DIN VDE 0295 - Wire class acc

NY Y

Power cable, Cu-conductor, PVC-insulation, PVC-sheathing

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

NY Y; PP00; PP00; PP00; NY Y; NY Y; CY Y; NY Y; NY Y

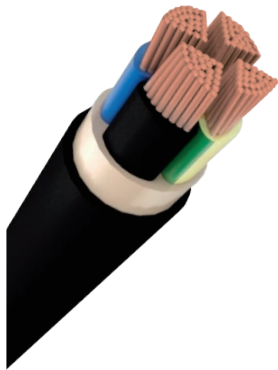
Power cable for construction of underground distribution grids and installations of industrial and public projects, where mechanical damages are not to be expected. Suitable for transmission and distribution of electric power at nominal voltage U_0/U 0,6/1 kV.

TECHNICAL DATA:

- Power cable acc. to DIN VDE 0276 part 603
- Ambient temperature
- fixed installation: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Short circuit temperature: +160°C
- (short circuit duration up to 5 sec.)
- Nominal voltage U_0/U 0,6/1 kV
- Test voltage: AC-4 kV/50 Hz

CONSTRUCTION::

- Solid or stranded Cu wires cl. 1 or cl. 2 acc. to DIN VDE 0295
- Insulation: PVC compound
- Inner sheath: filling compound
- Outer sheath: PVC compound
- Outer sheath colour: black
- **re** - round solid
- **rm** - round multi-core
- **sm** - sector multi-core
- **se** - sector solid conductor



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2x1,5	re	black	12,2	28	192	100	E	833019
2x2,5	re	black	12,9	46	229	100	E	833020
2x4	re	black	14,9	75	315	100	E	833021
2x6	re	black	15,9	112	382	100	E	833022
2x10	re	black	17,5	188	509	1	E	833023



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
3x1,5	re	black	12,1	43	201	100	E	833030
3x2,5	re	black	12,9	70	247	100	E	833031
3x4	re	black	15	112	350	100	E	833032
3x6	re	black	16,1	168	435	100	E	833034
3x10	re	black	18	282	606	1	E	833036





Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
4x1,5	re	black	12,9	57	232	100	E	833060
4x2,5	re	black	13,8	93	289	100	E	833061
4x4	re	black	16,2	149	419	100	E	833062
4x6	re	black	17,4	223	525	100	E	833063
4x10	re	black	19,5	376	741	1	E	833064
4x16	re	black	21,8	595	1024	1	E	833065



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
5x1,5	re	black	13,7	71	272	100	E	833077
5x2,5	re	black	14,8	116	341	100	E	833078
5x4	re	black	17,4	187	494	100	E	833079
5x6	re	black	19	279	635	100	E	833080



Standards:

BDS 904-84 - according to construction
IEC60332-1 - according to flame
retardant

CBT-C

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

POWER CABLE WITH SOLID OR STRANDED CU WIRES, PVC INSULATION AND SHEATHING



CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c

A cable with solid or stranded CU wires, resistant to the sun radiance and atmospheric influences. It is suitable for spread and transfer of electrical energy if it is installed steady outside or in indoor spaces - cable trunking, electrical cable conduit, cable trays, directly into tunnels, earthworks, pits and etc.

TECHNICAL DATA:

- Nominal voltage U₀- 0.6kV
- Nominal voltage U- 1kV
- Ambient temperature- from -30°C to +50°C
- Max. operating temperature- +70°C
- Temperature of laying- ≥-5°C
- Conductor material- Copper (Cu)
- Conductors insulation - PVC compound
- Outer sheath material-filling sheath and PVC compound
- Conductor construction- solid or stranded CU wires, class 1 or class 2
- **re** - round solid
- **rm** - round multi-core
- **sm** - sector multi-core
- **se** - sector solid conductor



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2X1	re	black	9.5	20	100	100	E	817020
2X1.5	re	black	10.0	28	120	100	E	817021
2X2.5	re	black	10.6	46	150	100	E	817022
2X4	re	black	12.5	73	210	100	E	817023
2X6	re	black	13.3	110	260	100	E	817024
2X10	re	black	15.2	182	370	1	E	817025



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
3X1	re	black	9.7	28	120	100	E	817036
3X1.5	re	black	10.2	42	140	100	E	817037
3X2.5	re	black	11.0	69	180	100	E	817039
3X4	re	black	13.0	110	260	100	E	817041
3X6	re	black	14.0	165	340	100	E	817043
3X10	re	black	16.0	275	480	1	E	817045



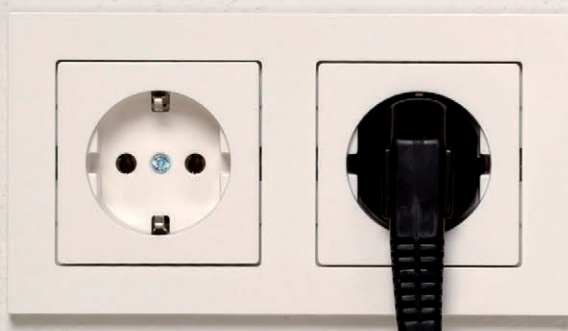


Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
4X1	re	black	10.4	37	140	100	E	817067
4X1.5	re	black	11.0	55	165	100	E	817068
4X2.5	re	black	11.9	91	215	100	E	817069
4X4	re	black	14.1	146	315	100	E	817070
4X6	re	black	15.4	220	410	100	E	817071
4X10	re	black	17.4	365	595	1	E	817072
4X16	rm	black	20.6	585	950	1	E	817073



Cross section (n x mm ²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
5X1	re	black	11.2	45	160	100	E	817083
5X1.5	re	black	11.8	69	195	100	E	817084
5X2.5	re	black	12.8	114	260	100	E	817085
5X4	re	black	15.5	182	380	100	E	817086
5X6	re	black	16.8	275	500	100	E	817087





INSIDE POWER CABLES

Standards:

Flat conductor acc. to BDS IEC 60227-5
Flexible Cu-wires, cl. 6 acc. to IEC 60228

H03VH-H

Flat conductor, flexible Cu-wires, PVC-insulation



ШВПЛ-А; PL; H03VH-H; P/L; H03VH-H; H03VH-H; H03VH-H; RVV; H03VH-H

Designed for connection of electrical appliances to the electrical grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:

- Ambient temperature: -40°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage U₀/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:

- Flexible Cu-wires, cl. 6 acc. to IEC 60228
- Flat conductor acc. to BDS IEC 60227-5
- Insulation: PVC compound
- Insulation colour: white or black-red

Cross section (n x mm ²)	Colour	Thickness (mm)	Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2x0,50	white or black-red	6,0	3,0	9	25	100	E	820001
2x0,75	white or black-red	6,4	3,2	14	30	100	E	820002
2x1	white or black-red	6,8	3,4	19,2	31	100	E	820017
2x1,50	white or black-red	7,6	4,0	28,8	38	100	E	820018

**Standards:**

Conductor acc. to HD 21,5 S3
Flexible Cu-wires, cl. 5 acc. to IEC 60228

H03VV-F

Conductor with flexible Cu-wires, PVC insulation and sheath



ШВПЛ-Б; PP/L; PP/L; PP/L; H03VV-F; H03VV-F; MYUP; H03VV-F; H03VV-F

Conductor with parallel or stranded in a bundle insulated cores, designed for connection of electrical appliances to the electrical grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:

- Variant of the conductor: H03VVH2-F - flat type
- Ambient temperature: -30°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage U₀/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:

- Flexible Cu-wires, cl. 5 acc. to IEC 60228
- Insulation: PVC compound
- Sheafing: PVC compound
- Outer sheath colour: white

Type (flat)	Cross section (n x mm ²)	Colour	Thickness (mm)	Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
H03VVH2-F	2x0,5	white	6,0	3,6	10,0	30	100	E	820004
H03VVH2-F	2x0,75	white	6,4	3,9	14,5	39	100	E	820006



Type (round)	Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
H03VV-F	2X0,5	white	9.5	100	25	100	E	820003
H03VV-F	3X0,5	white	10.0	120	30	100	E	820007



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

Standards:

Flexible cable acc. to HD 21.5 S3, DIN VDE 0281 part 5
Flexible Cu-wires, cl. 5 acc. to DIN VDE 0295, IEC 60228
Colour coding: acc. to DIN VDE 0293-308

H05VV-F

Conductor with flexible Cu-wires, PVC insulation and sheath



ШБПГ; PP/J; PP/J; PP/J; H05VV-F; H05VV-F; MYYM; H05VV-F; H05VV-F

Conductor with parallel or stranded in a bundle insulated cores, designed for connection of electrical appliances to the electric grid, for connection of mobile users, devices and appliances.

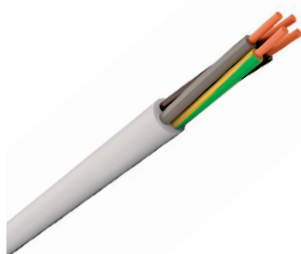
TECHNICAL DATA:

- Variant of the conductor: H05VH2-F - flat type
- Ambient temperature: -30°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 300/500 V

- Test voltage: 2000 V

CONSTRUCTION:

- Flexible Cu-wires, cl. 5 acc. to DIN VDE 0295, IEC 60228
- Insulation/outer sheath: PVC compound;
- Outer sheath colour: white



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2 x 0,75	white	7,6	14,0	62	100	E	821001
2 x 1	white	8,0	19,5	71	100	E	821002
2 x 1,5	white	9,0	28,0	94	100	E	821003
2 x 2,5	white	11,0	47,0	114	100	E	821004



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
3 x 0,75	white	8,0	21,5	74	100	E	821008
3 x 1	white	8,4	29,0	85	100	E	821009
3 x 1,5	white	9,8	42,0	120	100	E	821010
3 x 2,5	white	12,0	70,0	182	100	E	821011
3 x 4	white	13,0	114,0	252	100	E	821012



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
4 x 0,75	white	8,6	29,0	92	100	E	821016
4 x 1	white	9,4	38,5	109	100	E	821017
4 x 1,5	white	11,0	56,0	151	100	E	821018
4 x 2,5	white	13,0	93,5	225	100	E	821019
4 x 4	white	14,0	151,0	315	100	E	821020



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
5 x 0,75	white	9,6	36,0	115	100	E	821024
5 x 1	white	10,0	48,0	132	100	E	821025
5 x 1,5	white	12,0	70,0	188	100	E	821026
5 x 2,5	white	14,0	117,0	280	100	E	821027





INSTALLATION CONDUCTORS

Standards:

Conductor acc. to HD 21.3 S3, DIN VDE 0281 part 3
Solid Cu wires cl. 1 acc. to DIN VDE 0295, IEC 60228

H05V-U, H07V-U

Conductor, Cu-wires, PVC-insulation

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

ПБ-A1; P; P; P; P; P; H05V-U, H07V-U; H05V-U, H07V-U (CY); H05V-U, H07V-U (FY);
 H05V-U, H07V-U; H05V-U, H07V-U

For fixed installation in lighting networks, electric power installations, wiring of electrical switchboards, machines and equipment.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U:
 - H05V-U 300/500 V
 - H07V-U 450/750 V
- Test voltage:
 - H05V-U 2000 V
 - H07V-U 2500 V

CONSTRUCTION:

- Solid Cu wires cl. 1 acc. to DIN VDE 0295, IEC 60228
- Insulation: PVC compound
- Insulation colour:
 - yellow-green: available cross sections from 0.5 to 10 (mm²)
 - white: available cross sections from 0.5 to 4 (mm²)
 - black: available cross sections from 0.5 to 10 (mm²)
 - blue: available cross sections from 0.5 to 10 (mm²)
 - brown: available cross sections from 0.5 to 10 (mm²)
 - red: available cross sections from 0.5 to 10 (mm²)

Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
H05V-U	0,5	2,4	4,5	9	100	E	822001
H05V-U	0,75	2,6	7,0	12	100	E	822002
H05V-U	1	2,8	9,0	15	100	E	822003

Note: At orders of the desired colour, must be added after the catalogue number:

BL – blue; R – red; B – black; W- white; YG- yellow green; BR- brown



Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
H07V-U	1,5	3,3	13,5	21	100	E	822004
H07V-U	2,5	3,9	22,0	33	100	E	822005
H07V-U	4	4,4	35,0	48	100	E	822006
H07V-U	6	4,6	52,5	68	100	E	822007
H07V-U	10	6,4	87,5	113	100	E	822008

Note: At orders of the desired colour, must be added after the catalogue number:

BL – blue; R – red; B – black; W- white; YG- yellow green; BR- brown



Standards:

PVC conductor acc. to HD 21.3 S3, DIN VDE 0281 part 3
Flexible Cu wires cl. 5 acc. to DIN VDE 0295, IEC 60228

H05V-K, H07V-K

Conductor, Cu-wires, PVC-insulation

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

ПБ-A2; PF; P/F; P/F; H05V-K, H07V-K; H05V-K, H07V-K (CYA); MYF;
 H05V-K, H07V-K; H05V-K, H07V-K

For fixed installation wiring of electrical switchboards, machines and equipment, where small bending radius is required.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage U₀/U:
 - H05V-K 300/500 V
 - H07V-K 450/750 V
- Test voltage:
 - H05V-K 2000 V
 - H07V-K 2500 V

CONSTRUCTION:

- Flexible Cu wires cl. 5 acc. to DIN VDE 0295, IEC 60228
- Insulation: PVC compound
- Insulation colour:
 - yellow-green: available cross sections from 0.5 to 25 (mm²)
 - white: available cross sections from 0.5 to 4 (mm²)
 - black: available cross sections from 0.5 to 25 (mm²)
 - blue: available cross sections from 0.5 to 25 (mm²)
 - brown: available cross sections from 0.5 to 10 (mm²)
 - red: available cross sections from 0.5 to 25 (mm²)

Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
H05V-K	0,5	2,6	5,0	10	100	E	823002
H05V-K	0,75	2,8	7,0	13	100	E	823003
H05V-K	1	3,0	9,5	16	100	E	823004

Note: At orders of the desired colour, must be added after the catalogue number:
BL – blue; R – red; B – black; W – white; YG – yellow green; BR – brown



Type	Cross section (n x mm ²)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
H07V-K	1,5	3,5	14,0	23	100	E	823005
H07V-K	2,5	4,2	23,0	36	100	E	823006
H07V-K	4	4,8	36,5	52	100	E	823007
H07V-K	6	6,3	57,0	74	100	E	823008
H07V-K	10	7,6	96,0	131	100	E	823009
H07V-K	16	8,8	151,0	195	100	E	823010
H07V-K	25	11,0	235,0	300	100	E	823011

Note: At orders of the desired colour, must be added after the catalogue number:
BL – blue; R – red; B – black; W – white; YG – yellow green; BR – brown



Standards:

Flat conductor acc. to BDS 4305-90
Solid Cu wires cl. 1 acc. to BDS 904-84

NYIFY-O/J

Flat installation conductor, Cu-wires, PVC-insulation, PVC-sheath



ПBB-MБ1; PG; PP/R; PP/R; NYIFY-O/J; NYIFY-O/J; NYIFY-O/J; NYIFY-O/J; NYFAZ

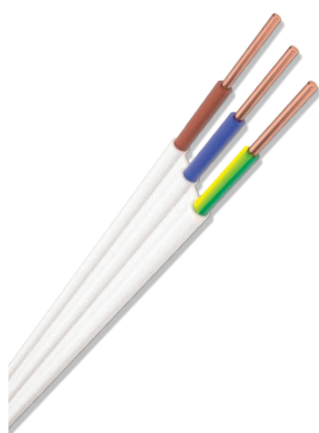
Installation conductor with parallel Cu-wires for fixed installation in lighting networks and electric power installations.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 220/380 V
- Test voltage: 2000 V

CONSTRUCTION:

- Solid Cu wires cl. 1 acc. to BDS 904-84
- Insulation: PVC compound
- Sheath: PVC compound
- Outer sheath colour: white



Cross section (n x mm ²)	Colour	Conductor Thickness (mm)	Conductor Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2 x 1,00	white	3,70	10,30	17,9	55	100	E	834001
2x1,50	white	4,10	11,20	26,6	65	100	E	834002
2 x 2,50	white	5,00	12,90	44,3	97	100	E	834003
2x4,00	white	5,60	14,20	70,6	135	100	E	834004
2x6,00	white	6,50	16,00	104,4	190	100	E	834005

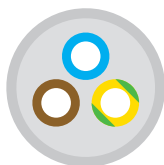
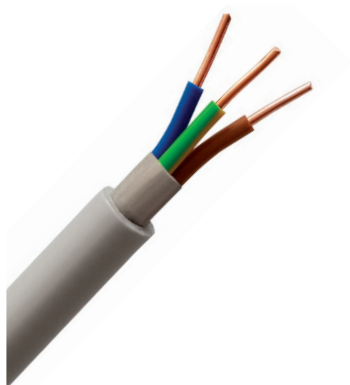


Cross section (n x mm ²)	Colour	Conductor Thickness (mm)	Conductor Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
3x1,00	white	3,70	14,00	26,8	73	100	E	834007
3x1,50	white	4,10	15,30	39,8	95	100	E	834008
3x2,50	white	5,00	16,90	66,4	142	100	E	834009
3x4,00	white	5,60	19,80	104,2	200	100	E	834010
3x6,00	white	6,50	22,50	156,5	280	100	E	834011



Standards:

DIN VDE 0295; IEC 60228- according to construction DIN VDE 0250-204- according to multi-core conductors IEC60332-1- according to flame retardant

**NYM**

Multi-core conductor with Cu wires and PVC insulation



NYM; PGP; PGP; PP-Y; PGP; NYM; NYM; NYM; NYM; NYM

For fixed instalations in , or on under plasterboard, in lighting networks in dry places. Can be used and in damp or wet rooms, in wall and concrete, in switchboards and mashines. Is suitable for outdoor use if cable is protected against direct sunshine.

TECHNICAL DATA:

- Nominal voltage: U₀- 300V; U- 500V
- Ambient temperature- from -20°C to +50°C
- Max. oprating temperature- +70C°
- Instalation temperature- ≥-5°C

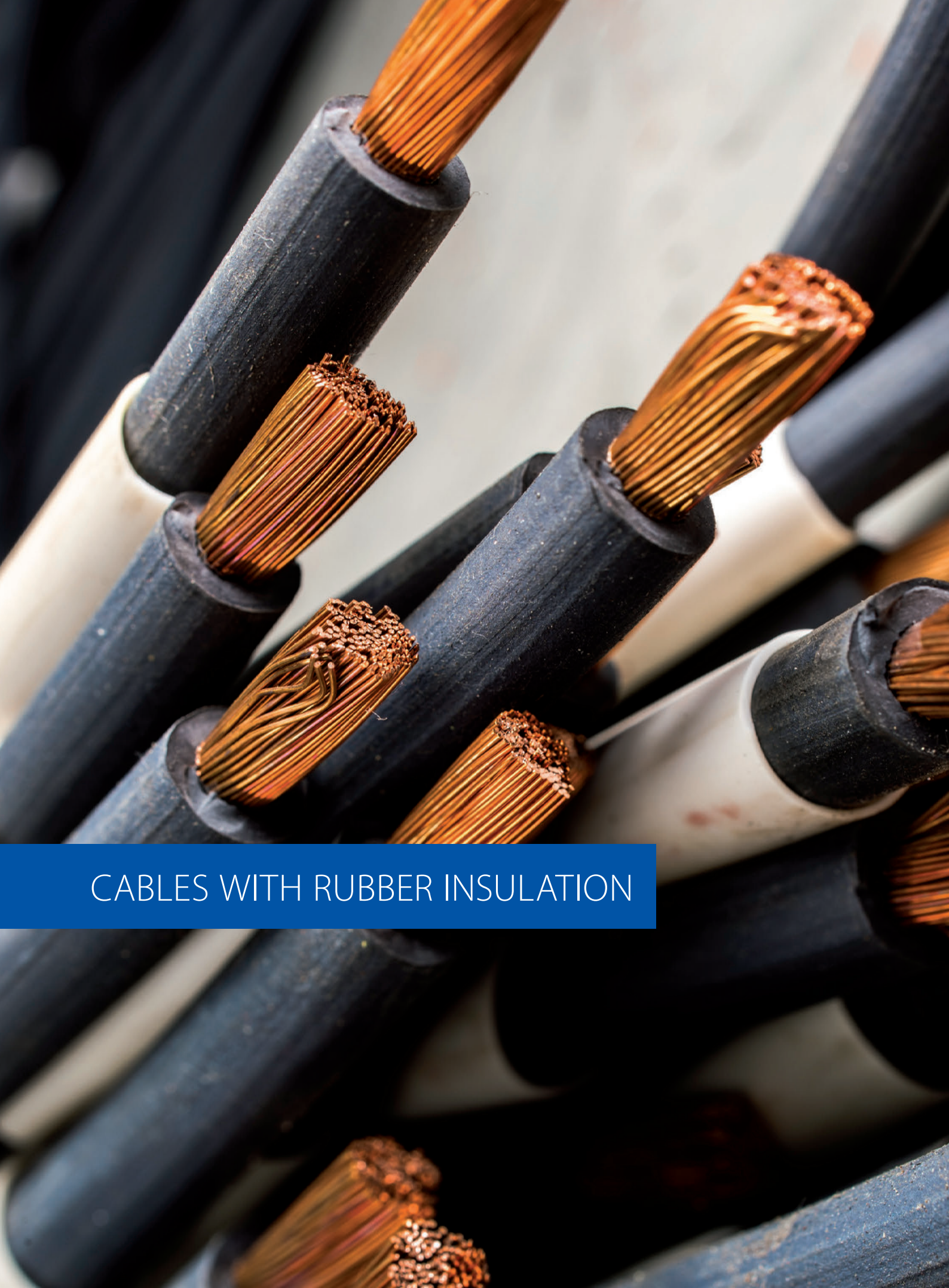
- Conductor material- Copper (Cu)
- Conductors insulation - PVC compaund
- Outer steath material-filling sheath and PVC compaund
- Conductor construction- solid CU wires, class 1 and class 2 for cross section above 10mm²

Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2X1.5	grey	9.8	29	120	100	E	832008
2X2.5	grey	11.0	48	160	100	E	832009
2X4	grey	12.5	76	220	100	E	832010



Cross section (n x mm ²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
3X1.5	grey	10.5	43	136	100	E	832016
3X2.5	grey	11.5	72	190	100	E	832017
3X4	grey	13.0	115	260	100	E	832018



A close-up photograph showing several cables with black rubber insulation. The cables are arranged diagonally across the frame. The insulation is cut back, revealing the copper conductors inside. The copper has a bright, metallic sheen. The background is blurred, showing more cables and some white material.

CABLES WITH RUBBER INSULATION

Standards:

DIN VDE 0295; IEC 60228- according to construction

DIN VDE 0293-308 and HD 186- according to colour coating

DIN VDE 0482-332-1-2; IEC60332-1- according to flame retardant

H05RR-F

Rubber flexible cable

5+2
standard
+extended **7** YEAR TOTAL
WARRANTY

ШКПЛ; GG/J; GG/J; GG/J; H05RR-F; H05RR-F; MCCM; H05RR-F; H05RR-F

For connection of electrical appliances and consumers with low and middle mechanical stress to Alternating Current (AC). It has wide use in household, office, for cable reels, for connecting of mobile consumers and etc.

TECHNICAL DATA:

- Nominal voltage U_0/U : 300V/500V
- Ambient temperature: from -30°C to +60°C

- Conductor material: Copper (Cu) wires, class 5
- Conductors insulation: Rubber EPR
- Outer sheath material: Rubber EPR

Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
2X1	H05RR-F	black	6.1 - 8.0	19.0	71.0	100	E	814002
2X1.5	H05RR-F	black	7.6 - 9.8	29.0	99.0	100	E	814003
2X2.5	H05RR-F	black	9.0 - 11.6	48.0	148.0	100	E	814004



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
3X1	H05RR-F	black	6.5 - 8.5	29.0	88.0	100	E	814007
3X1.5	H05RR-F	black	8.0 - 10.4	43.0	125.0	100	E	814008
3X2.5	H05RR-F	black	9.6 - 12.4	72.0	175.0	100	E	814009
3X4	H05RR-F	black	11.3 - 14.5	115.0	246.0	100	E	814010



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
4X1	H05RR-F	black	9.0 - 11.6	58.0	165.0	100	E	814012
4X1.5	H05RR-F	black	9.0 - 11.6	58.0	165.0	100	E	814013
4X2.5	H05RR-F	black	10.7 - 13.8	96.0	225.0	100	E	814014
4X4	H05RR-F	black	12.7 - 16.2	154.0	315.0	100	E	814015
4X6	H05RR-F	black	14.2 - 18.1	231.0	440.0	100	E	814017



Cross section (n x mm ²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Product category	Catalogue number
5X1.5	H05RR-F	black	9.8 - 12.7	72.0	185.0	100	E	814020
5X2.5	H05RR-F	black	11.9 - 15.3	120.0	275.0	100	E	814021
5x4	H05RR-F	black	15,6-19,9	187	475	100	E	814022
5x6	H05RR-F	black	17,5-22,2	288	635	100	E	814023





COMMUNICATION CABLES

Construction:

CCA-wires - 4x2x0.24

UTP

LAN cable, stranded in pairs, cat. 5e

5+2
standard
+extended **7** YEAR TOTAL
WARRANTY
 UTP;  UTP;  UTP;  UTP;  UTP;  UTP;  UTP;  UTP;  UTP CAT5E

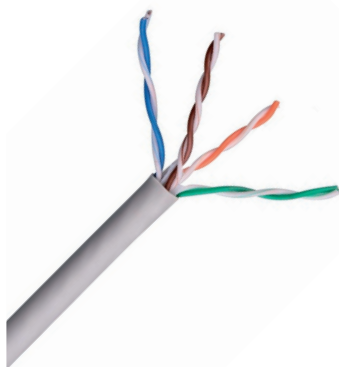
Cable, stranded by pairs, used for transmission of digital signals with high speed of transmission. Suitable for setting computer systems for data transmission, measuring and control systems with proper resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: $100 \Omega \pm 15 \Omega$
- Loop resistance: $\leq 192 \Omega / \text{km}$
- Unbalance of loop resistance: $\leq 3\%$
- Insulation resistance: $\geq 150 \text{ M}\Omega \times \text{km}$
- Operating capacity: $\leq 55,8 \text{ nF/km}$
- Cable diameter: 5 mm
- Cable weight: 27 kg/km

CONSTRUCTION:

- CCA-wires - 24 AWG; 0,51 mm, acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC-grey



Colour	Category	Frequency - MHz		Characteristic of attenuation							Packing (m)	Product category	Catalogue number
				4	10	16	62,5	100	125				
grey	Cat. 5e	Attenuation - db/100 m		4,1	6,5	8,2	17	22	24,9		305	E	879002
		Attenuation (Next) - db		56,3	50,3	47,3	38,4	35,3	33,9				



Insulation colour of stranded pairs - core a / core b:

- white with blue ring / blue
- white with orange ring / orange
- white with green ring / green
- white with brown ring / brown

Construction:

CCA-wires - 4x2x0.24

FTP

LAN cable, stranded in pairs, with screen, cat. 5e

5+2
standard
+extended **7** YEAR TOTAL
WARRANTY
 FTP;  FTP;  FTP;  FTP;  FTP;  FTP;  FTP;  FTP;  FTP CAT5E

Cable, stranded in pairs, with screen of laminated foil, used for transmission of digital signals with high speed of transmission. FTP cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue signals in automatic and industrial TV networks. High resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: $100 \Omega \pm 15 \Omega$
- Loop resistance: $\leq 192 \Omega / \text{km}$
- Unbalance of loop resistance: $\leq 3\%$
- Insulation resistance: $\geq 150 \text{ M}\Omega \times \text{km}$
- Operating capacity: $\leq 55,8 \text{ nF/km}$
- Cable diameter: 6 mm
- Cable weight: 31 kg/km

CONSTRUCTION:

- CCA-wires - 24 AWG; 0,51 mm, acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- PETP foil
- Drain tinned Cu-wire
- Screen: laminated Al foil
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour tor PVC-grey



Colour	Category	Frequency - MHz		Characteristic of attenuation							Packing (m)	Product category	Catalogue number
				4	10	16	62,5	100	125				
grey	Cat. 5e	Attenuation - db/100 m		4,1	6,5	8,2	17	22	24,9		305	E	879001
		Attenuation (Next) - db		56,3	50,3	47,3	38,4	35,3	33,9				



Insulation colour of stranded pairs - core a / core b:

- white with blue ring / blue
- white with orange ring / orange
- white with green ring / green
- white with brown ring / brown

Construction:

CCA-wires - 4x2x0.24

STP

LAN cable, stranded in pairs, with screen on each pair, cat. 6

5+2
 standard
 +extended
7 YEAR TOTAL
 WARRANTY

STP; STP; STP; STP; STP; STP; STP; STP; STP; STP; STP CAT6

Cable, stranded in pairs, with screen of laminated foil on each pair, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 300 MHz for cat. 6. The cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue signals in automatic and industrial TV networks and is with high resistance to electromagnetic influences.

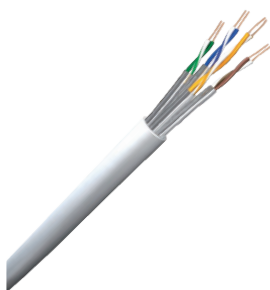
TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance:
 - 100 Ω ± 15 Ω up to 100 MHz
 - 100 Ω ± (15 + 0,05(f-100)) above 100 MHz
- Loop resistance: ≤ 170 Ω / km
- Unbalance of loop resistance: ≤ 3%
- Insulation resistance: ≥ 150 MΩ x km
- Operating capacity: ≤ 50 nF/km
- Cable diameter: 7 mm

- Cable weight 42 kg/km

CONSTRUCTION:

- CCA-wires - 24 AWG; 0,57 mm acc. to IEC 60228
- Insulation: PE compound
- Screen: laminated Al foil on each pair
- Cable bundle: 4 stranded screened pairs
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC-grey, for LSOH - orange



Colour	Category	Frequency - MHz	Characteristic of attenuation								Packing (m)	Product category	Catalogue number
			4	10	16	62,5	100	200	300				
grey	Cat. 6	Attenuation - db/100 m	3,8	6	7,6	15,5	19,9	29,5	35		305	E	879012
		Attenuation (Next) - db	65,3	59,3	56,2	47,4	44,3	39,8	38				



Insulation colour of stranded pairs - core a / core b:

- white with blue ring / blue
- white with orange ring / orange
- white with green ring / green
- white with brown ring / brown

Construction:

CCA-wires - 4x2x0.24

S-FTP

LAN cable, stranded in pairs, with duple-screen, cat. 5

5+2
 standard
 +extended
7 YEAR TOTAL
 WARRANTY

S-FTP; S-FTP; S-FTP; S-FTP; S-FTP; S-FTP; S-FTP; S/FTP; S-FTP; SFTP CAT5

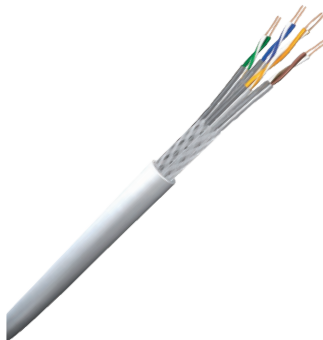
Cable, stranded in pairs, with screen of laminated foil, with braid of tinned copper wires used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5. The cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue signals in automatic and industrial TV networks. High resistance to electromagnetic influences.

TECHNICAL DATA:

- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: 100 Ω ± 15 Ω
- Loop resistance: ≤ 192 Ω / km
- Unbalance of loop resistance: ≤ 3%
- Insulation resistance: ≥ 150 MΩ x km
- Operating capacity: ≤ 55,8 nF/km
- Cable diameter: 6,9 mm

CONSTRUCTION:

- CCA-wires - 24 AWG; 0,51 mm acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- PETP foil
- Screen: laminated Al foil
- Braiding of tinned Cu-wires
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC - grey



Colour	Category	Frequency - MHz	Characteristic of attenuation								Packing (m)	Product category	Catalogue number
			4	10	16	62,5	100	125					
grey	Cat. 5	Attenuation - db/100 m	4,3	6,6	8,2	17,1	22				305	E	879011
		Attenuation (Next) - db	53	47	44	35	32						



Insulation colour of stranded pairs - core a / core b:

- white with blue ring / blue
- white with orange ring / orange
- white with green ring / green
- white with brown ring / brown

COAXIAL CABLE RG6 / 96

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

Coaxial cable, suitable for connection of TV aerials to TV receivers.

 RG6/96;  RG6/96;  RG6;  RG6;  RG6/96;  RG6/96;  RG6/96;  RG6/96;  RG6

Suitable for high frequency equipment, measuring and control equipment and appliances, for setting up local computer networks, and data systems, for connection of TV aerials to TV receivers

TECHNICAL DATA:

- model - RG6 / 96;
- material and structure of the core cable: CCS 1.02 mm;
- type of insulation: PE 4.60 mm;
- external conductor (screen): 96 Al foil;
- diameter and cable material: 6.9 mm PVC;
- wave impedance: $75 \pm 5 \text{ Ohm}$;
- operating temperature: from -30°C to $+70^\circ \text{C}$;
- damping ratio: at 100 MHz 0.0637 dB / m.

Colour	Description	Insulation Ø mm	Outer Ø mm	Wave resistance Ω	Max. capacity pF/m	Attenuation at 200 MHz max. dB/100m	Packing (m)	Product category	Catalogue number
white	RG6/96	PE 4,70	8,40 PVC	75 ± 3	68	12	100	E	856001



COAXIAL CABLE RG59 / + 2X0.5MM2

5+2
standard
+extended
7 YEAR TOTAL
WARRANTY

Coaxial cable, suitable for video surveillance systems.

 RG59+2x0.5;  RG59+2x0.5;  RG59;  R59;  RG59+2x0.5;  RG59(CCTV)+2X0.5;  RG59;  RG59;  RG59+2x0.5

TECHNICAL DATA:

• Coaxial cable: RG-59

- Inner conductor: $\varnothing 0.59 \text{ mm}$ - CCS wire
- Dielectric: $\varnothing 3.7 \text{ mm}$ PE full
- Braid: Stranded wire Cu, Indoor coverage area : 90 %
- Impedance: 75Ω
- Outer coating: Al foil + Al braiding
- Cable attenuation at 100m section:
 - 10.9 dB @ 100 MHz
 - 15.2 dB @ 200 MHz
 - 23.2 dB @ 450 MHz
 - 32.6 dB @ 800 MHz
 - 36.6 dB @ 1000 MHz

Electrical cable:

- Inner conductor: 2 x 0.5 m CU wires
- Power wires resistance: $4 \Omega / 100 \text{ m}$
- Outer coating: $\varnothing 5 \text{ mm}$

Colour	Description	Insulation Ø mm	Outer Ø mm	Wave resistance Ω	Max. capacity pF/m	Attenuation at 200 MHz max. dB/100m	Packing (m)	Product category	Catalogue number
white	RG59/U+2x0.5	PE 3,66	8/5mm	75 ± 3	53.4	12.4	100	E	856004



ALARM CABLE

5+2
 standard
 +extended **7** YEAR TOTAL
 WARRANTY

Unshelles alarm cable



Алармен кабел; Alarmni kabel; Alarmni kabel; Alarmni kabl; Alarmni kabel;
 Poplašný kábel; Cablu de alarmă; Riasztó kábel; Καλώδιο συναγερμού

Suitable for the connection of detectors, sensors, infra-red as well as micro wave or mixed technology systems to the switch board.

TECHNICAL DATA:

- Ambient temperature: -20°C to +60°C
- Operating voltage: 300V RMS max
- Capacitance between conductors: 1KHz - 33pF/ft Nom.
- Capacitance between conductors to shield: 1KHz - 60pF/ft Nom.
- Damping ratio: at 100 MHz 0.0637 dB / m.

CONSTRUCTION:

- Conductor: CCA
- Insulation: PVC
- Insulation colors: red, blue, yellow, black, green, white
- Shield: without
- Rip cord: syntetic fibers
- Drain wire: no

Cross section (n x mm ²)	Cable type	Colour	Outer diameter (mm)	Packing (m)	Product category	Catalogue number
6x0.22	CCA	white	4.2	100	E	879016

