

Building wires

Standard: PN-NKT-061-00



Design

- 1. Copper conductor - round, solid class 1
- 2. PVC insulation
- 3. Bedding
- 4. PVC sheath

Application

Cables are designed for installation under plaster, in flat’s cores and for installation in conduits and cable ducts. It is possible to use them for fixed installation, indoors and outdoors, in the ground and in concrete.

Installation of the product should only be carried out by personnel trained and qualified for electrical works. The product is designed according to recognized standards. Applicable rules of installation must be applied at all times.

Properties

Rated voltage Uo/U	0,45/0,75 kV	Self-extinguishing of one cable	IEC 60332-1-2
Test voltage	4 (AC) kV	CPR-Classification	Eca
Maximal short-circuit temperature	160 °C	UV stability	yes
Maximal operating conductor temperature	70 °C	Packaging	drum, coil
Temperature range	from -40 up to 70 °C	Certificate	EZÚ
Minimal temperature for laying and manipulation	-5 °C	RoHS	yes
Minimal storage temperature	-40 °C	REACH	yes
Colour of insulation	HD 308 S2	Declaration of Conformity UE (CE)	yes
Colour of sheath	black		

Technical data

No. of cores and cross-section mm ²	Diameter (height) of conductor mm	Thickness - nominal insulation mm	Thickness - nominal sheath mm	Diameter informative mm	Weight informative kg/km	Minimal radius of bend mm	Max. effective resistance conductor at 20°C Ω/km	Short circuit current (1s) kA	Current carrying capacity single cable in air *1 A	Max. permitted pulling force *2 N
2x1,5	1,4	0,7	1,0	6,9	80	41,4	12,531	0,17	18	150
2x2,5	1,7	0,8	1,0	8,0	117	48,0	7,52	0,29	25	250
2x4	2,2	0,8	1,0	9,1	162	54,6	4,70	0,46	33	400
2x6	2,7	0,8	1,0	10,0	214	60,0	3,133	0,69	42	600
2x10	3,5	1,0	1,0	13,9	399	83,4	1,83	1,15	59	1000
2x16	4,4	1,0	1,0	15,7	556	94,2	1,15	1,84	78	1600
3x1,5	1,4	0,7	1,0	7,4	99	44,4	12,531	0,17	18	225
3x2,5	1,7	0,8	1,0	8,6	144	51,6	7,52	0,29	25	375
3x4	2,2	0,8	1,0	9,7	200	58,2	4,70	0,46	33	600
3x6	2,7	0,8	1,0	10,7	269	64,2	3,133	0,69	42	900
3x10	3,5	1,0	1,0	13,4	437	80,4	1,88	1,15	61	1500
3x16	4,4	1,0	1,2	16,7	700	100,2	1,15	1,84	80	2400
4x1,5	1,4	0,7	1,0	8,0	119	48,0	12,531	0,17	19	300
4x2,5	1,7	0,8	1,0	9,4	175	56,4	7,52	0,29	26	500
4x4	2,2	0,8	1,0	10,6	246	63,6	4,70	0,46	34	800
4x6	2,7	0,8	1,0	11,8	334	70,8	3,133	0,69	44	1200
4x10	3,5	1,0	1,2	15,2	559	91,2	1,88	1,15	62	2000
4x16	4,4	1,0	1,2	18,3	872	109,8	1,15	1,84	83	3200
5x1,5	1,4	0,7	1,0	8,9	147	53,4	12,531	0,17	20	375
5x2,5	1,7	0,8	1,0	10,4	214	62,4	7,52	0,29	27	625
5x4	2,2	0,8	1,0	11,6	303	69,6	4,70	0,46	36	1000
5x6	2,7	0,8	1,0	13,0	409	78,0	3,133	0,69	45	1500
5x10	3,5	1,0	1,2	16,7	686	100,2	1,88	1,15	64	2500
5x16	4,4	1,0	1,2	20,3	1096	121,8	1,15	1,84	86	4000
7x1,5	1,4	0,7	1,0	9,5	178	57,0	12,531	0,17	12	525
7x2,5	1,7	0,8	1,0	11,2	265	67,2	7,52	0,29	16	875

*1 Air temperature: 30 °C

*2 Force is distributed over all cable conductors: