

Building wires

Standard: PN-E-90068



Design

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

Application

Cables are designed for fixed installation, indoors, in air, in and under plaster.

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 U ₀ /U	0,45/0,75 kV	Self-extinguishing of one cable	IEC 60332-1-2
Test voltage	2,5 (AC) kV	CPR-Classification	Eca
Maximal short-circuit conductor temperature	160 °C	UV stability	no
Maximal operating conductor temperature	70 °C	Packaging	drum, coil
Temperature range	from -40 up to 70 °C	Certificate	BBJ
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 EU (CE)	yes
Colour of sheath	white		

Technical data

No. of cores and cross-section	Diameter of conductor	Thickness - nominal insulation	Thickness - nominal sheath	Diameter informative	Weight informative	Minimal radius of bend	Max. effective resistance conductor at 20°C	Maximum pulling force *1
mm ²	mm	mm	mm	mm	kg/km	mm	Ω/km	N
2x1	1,1	0,8	1,2	5,0 x 7,6	63	20	18,1	100
2x1,5	1,3	0,8	1,2	5,2 x 8,1	72	21	12,1	150
2x2,5	1,7	0,8	1,2	5,6 x 8,9	95	22	7,41	250
2x4	2,2	0,9	1,2	6,2 x 10,1	139	25	4,61	400
2x6	2,7	0,9	1,2	6,7 x 11,1	182	27	3,08	600
2x10	3,5	1,1	1,3	8,1 x 13,7	287	32	1,83	1000
3x1	1,1	0,8	1,2	5,0 x 10,3	90	20	18,1	150
3x1,5	1,3	0,8	1,2	5,2 x 10,9	102	21	12,1	225
3x2,5	1,7	0,8	1,2	5,6 x 8,8	136	22	7,41	375
3x4	2,2	0,9	1,2	6,3 x 14,1	204	25	4,61	600
3x6	2,7	0,9	1,3	7,0 x 15,8	275	28	3,08	900
4x1	1,1	0,8	1,2	5,0 x 12,8	117	20	18,1	200
4x1,5	1,3	0,8	1,2	5,2 x 13,9	133	21	12,1	300
4x2,5	1,7	0,8	1,2	5,6 x 15,4	178	22	7,41	500
4x4	2,2	0,9	1,3	6,4 x 18,1	275	26	4,61	800
5x1	1,1	0,8	1,2	5,0 x 15,4	144	20	18,1	250
5x1,5	1,3	0,8	1,2	5,2 x 16,8	164	21	12,1	375
5x2,5	1,7	0,8	1,2	5,6 x 18,7	219	22	7,41	625
5x4	2,2	0,9	1,3	6,5 x 22,2	341	26	4,61	1000
5x6	2,7	0,9	1,3	7,0 x 24,6	450	28	3,08	1500
5x10	3,5	1,1	1,3	8,2 x 30,6	703	33	1,83	2500

*1 Force is distributed over all cable conductors; Force for the pulling head or conductor grip