



Application

These cables can be used in dry, damp and wet areas, also outdoor, for medium mechanical loads. Robust and flexible, resistant to oils and external conditions, can be used as supply cables for electrical machines in construction industry and shipyards, for hand drills, circular saws and similar, for mobile motors in agriculture, heating devices if there is no risk that the cable will come in contact with hot elements. Flexibility at low temperatures up to -40 °C makes it suitable for use in freezing zones.

Standards

HRN HD 22.10 S1

DIN VDE 0282 mark 10

IEC 60245-4

Construction

Conductor: tinned or bare copper conductor, fine wired stranded, class 5 acc. to IEC 60228 / HD 383 / DIN VDE 0295

Insulation: rubber compound on ethylene-propylene basis (EPM, earlier: EPR), i.e. E16 acc. to DIN VDE 0282 part 1, concentrically stranded cores, colour marked acc. to DIN VDE 0293-308 / HD 308 S2, for 3 and more cores: with yellow-green protective core

Sheath: polyurethane (PUR) type TPU, acc. to DIN VDE 0282 part 10

sheath colour: orange (RAL 2003)

Core colour marking: acc. to HD 308 S2 / VDE 0293-308

Core Identification

2 core: Blue Brown

3 core: Green/Yellow Blue Brown

4 core: Green/Yellow Brown Black Grey

5 core: Green/Yellow Brown Black Grey Blue

Technical data

Temperature range:

during installation:

-30 °C up to +80 °C

fixed installed:

-40 °C up to +90 °C

Nominal voltage: $U_0/U = 300/500$ V

Test voltage: 2000 V

Specific el. resistance of insulation: > 100 M Ω x km

Minimal inner bending radius: 5D

Other characteristics:

- resistant to ozone, oxygen
- specially resistant to oils and greases, friction
- good flexibility also at low temp. up to -40 °C

Dimensions

Dimensions – number of cores x conductor cross-section	Construction of individual conductor	External diameter	Insulation thickness	Sheath thickness	Conductor resistance at 20 °C	Cu weight	Cable weight	Packing*
	nominal	min.– maks.	nominal	nominal	max.		approx.	
N x mm ²	n x mm	mm	mm	mm	Ω/km	kg/km	kg/km	
2 x 0,75	24 x 0,20	5,7 – 7,4	0,6	0,8	26,7	14,4	48,5	c.100
2 x 1	32 x 0,20	6,1 – 8,0	0,6	0,9	20,0	19,2	57,0	c.100
3 G 0,75	24 x 0,20	6,2 – 8,1	0,6	0,9	26,7	21,6	60,0	c.100
3 G 1	32 x 0,20	6,5 – 8,5	0,6	0,9	20,0	28,8	71,0	c.100
4 G 0,75	24 x 0,20	6,8 – 8,8	0,6	0,9	26,7	28,8	76,0	c.100
4 G 1	32 x 0,20	7,1 – 9,3	0,6	0,9	20,0	38,4	92,0	c.100
5 G 0,75	24 x 0,20	7,6 – 9,9	0,6	1,0	26,7	36,0	98,0	c.100
5 G 1	32 x 0,20	8,0 – 10,3	0,6	1,0	20,0	48,0	115,5	c.100

*) Packing: c.100 = coil 100 m