HALLEY CABLES

NSHTÖU

Rubber Cable

Rubber insulated connection and control cable

Construction:

Conductor	: tinned copper.
Conductor construction	: fine stranded, class 5.
Insulation	: rubber (EPR) 3GI3, halogen-free.
Inner sheath	: rubber GM1b.
Torsion protecting element	: polyester braid.
Sheating material	: rubber (CR) 5GM3.
Colour of outer sheath	: black.
Protective conductor	: yes.

Standards:

Cable	: VDE 0250 T.602.
Flame retardant	: VDE 0482-332-1-2/IEC 60332-1.
Core identification	: VDE 0293 (HD 308).

Technical data and tests:

Rated voltage Uo/U	: 0.6 / 1 kV.
Test Voltage	: 3 kV.
Max. temperature at conductor	: 90° C.
Max. operating temperature, fixed	: -40° ~ +80° C.
Temp. moved/during installation	: -20° ~ +80° C.
Torsion	: +/- 25°/m.
UV resistant	: yes.
Acid, lye and oil resistant	: yes.
Flame retardant	: yes.

Bending Radii				
installation	8 mm	8-12 mm	13-20 mm	20 mm
free movement	3D	3D	4D	4D
reeling operation	5D	5D	5D	6D
festoon	3D	4D	5D	5D
drag chain	4D	4D	5D	5D
multi roller	7,5D	7,5D	7,5D	7,5D

Applications:

As connection and control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable or hawser in dry, damp or wet rooms and in wet industrial conditions. The cable can be reeled and is resistant to acids, lyes, and oils.

DIMENSIONS

No. of conductors x cross section	Rl Ω/km	IbI A	Da mm	Fzv N	Cu kg/km	G kg/km
3X1,5	13,7	18	13,6		47	213
3X2,5	8,21	26	14,8		72	300
4X1,5	13,7	18	14,4	90	58	275
4X2,5	8,21	26	17,2	150	96	415
4X4	5,09	34	18,8	240	154	530
4X6	3,39	44	20,2	360	230,4	684
4X10	1,95	61	24,4	600	384	1017
4X16	1,24	82	27,9	960	615	1370
4X25	0,795	108	34,9	1500	960	1985

IEC CE VDE RoHS PG TSE

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No. of conductors x cross section	Rl Ω/km	IbI A	Da mm	Fzv N	Cu kg/km	G kg/km
4X35	0,565	135	37,5	2100	1344	2605
4X50	0,393	168	44,2	300	1920	3593
4X70	0,277	207	48,6	4200	2688	4950
4X95	0,21	250	55,4	5700	3648	6490
4X120	0,164	292	62	7200	4608	8600
4X150	0,132	335	67,6	9000	5760	9090
4X185	0,108	382	73,2	11100	7104	9730
5X1,5	13,7	18	15,4		72	317
5X2,5	8,21	26	18,2		120	464
5X4	5,09	34	20,1	300	192	630
5X6	3,39	44	22,7	450	288	790
5X10	1,95	61	26,3	750	480	1200
5X16	1,24	82	30,1	1200	768	1700
7X1,5	13,7	18	18,8		101	414
7X2,5	8,21	26	20,8		168	575
12X1,5	13,7	18	25,1	270	173	607
12X12,5	8,21	26	28,2	450	288	904
18X1,5	13,7	18	25,2	405	260	743
18X2,5	8,21	26	29,2	675	432	1230
24X1,5	13,7	18	29,4	540	346	1024
24X2,5	8,21	26	34,3	900	576	1583
30X1,5	13,7	18	32,9	675	432	1327
30X2,5	8,21	26	38,5	1125	720	1841
50X2,5	8,21	26	47,7	1875	1200	3050

Dl	diameter of conductor
Rl	conductor resistance
Ibl	ampacity (in air)
Ik	short circuit current (1 s)
Rbb	bending radius, moved application

Rbf	bending radius, fixed installation
DA	outer diameter
Fzv	tensile strength (during installation)
Ev	combustion energy
Cu	copper
G	weight

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