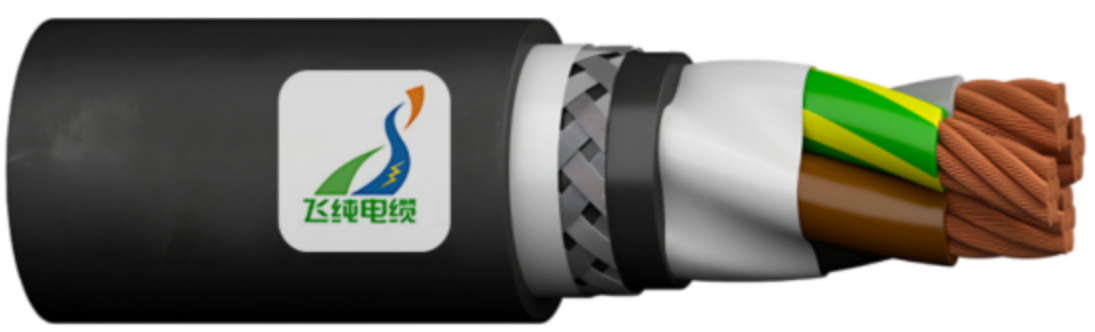
TYPE NSHTOEU REELING CABLE 0,6/1KV

Low voltage reeling cables PUR sheathed



Flexible low voltage reeling cable for application under extreme mechanical stresses.

STANDARDS / APPROVALS

DIN VDE 0250-814	General
Reversed bending; roller bending; torsional stress	Mechanical parametersC
VDE Reg. Nr. 7519	ertifications / ApprovalsC
DIN EN 60811-404 / IEC 60811-404	hemical behaviour
DIN VDE 0298-4	Electrical parameters
DIN VDE 0207-20	Compound
DIN VDE 0295 / DIN EN 60228 / IEC 60228	Conductor
DIN VDE 0207-21	Compound
DIN VDE 0298-3	Application
DIN EN 60332-1-2 / IEC 60332-1-2	Fire performance

CABLE DESIGN

Conductor	Very finely stranded copper, bare (class FS)
Core insulation material	Ethylene tetrafluoroethylene (ETFE)
Core arrangement	Laid-up in a maximum of 3 layers
	element to increase the max. permissible tensile force on the cable; (where applicable) Individual Screen made of tinned copper braid, with coverage: individual 60%; TSP 80%
Material inner sheath	Rubber - polychloroprene (PCP)
-	PROTOFIRM
-	Special compound > 5GM5
Armouring/reinforcement	Braiding
Armouring/reinforcement material	Polyester
Material outer sheath	Rubber - polychloroprene (PCP)
-	PROTOFIRM
-	Special compound > 5GM5

FEICHUN SPECIAL CABLES

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THERMAL PARAMETERS

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Ambient temperature fix installation (min) [°C]	-50
Ambient temperature fix installation (max) [°C]	80
Ambient temperature flexible installation (min) [°C]	-40
Ambient temperature flexible installation (max) [°C]	80

CHEMICAL PARAMETERS

Flame retardant	In accordance with EN/IEC 60332-1-2
Halogen free	Yes
Ozone resistance	Yes
Resistant to UV	Yes
Sea water resistance	Yes

MECHANICAL PARAMETERS

Torsional stress +/- [°/m]	50
Permanent tensile strength (rule)	Increased tensile load through addtional support elements (see table)
Travel speed	Hoist (vertical reeling): up to 240 m/min. It is recommended toc onsult the manufacturer for speeds beyond 240 m/min
Bending radius (rule)	Acc. to VDE 0298-3: 4 X D fixed installation 5 X D flexible operation 20 X D min distance with S-type directional changes

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CABLE PROPERTIES

Basic construction		Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
7x1,5		1.5	12	13.2	230
12x1,5		1.5	15.5	16.7	360
18x1,5		1.5	16.9	18.1	470
24x1,5		1.5	19	20.2	600
30x1,5		1.5	21.1	22.5	750
7x2,5		2	13.5	14.7	310
12x2,5		2	18.9	20.1	550
18x2,5		2	19.2	20.4	670
24x2,5		2	21.5	22.9	870
30x2,5		2	24.4	26	1,090
36x2,5		2	27.4	29	1,410
42x2,5		2	30	32	1,500
4x1,5		1.5	10	11.2	150
4x2,5		2	11.1	12.2	200
4x4		2.5	12.3	13.5	280
4x6		3.1	14.1	15.2	370
4x10		4.1	17.4	18.6	600
4x16		5.1	20	21.4	850
4x25		6.2	23.5	24.9	1,230
4x35		7.8	28.5	30.2	1,760
5x1,5		1.5	10.6	11.7	170
5x2,5		2	11.8	13	230
5x4		2.5	13.3	14.5	330
9x4		2.5	19.5	20.8	620
5x6		3.1	16.4	17.6	480
5x10		4.1	18.7	19.9	720
5x16		5.1	21.7	23	1,030
5x25		6.2	26.6	28.6	1,500
5x35		7.8	31	33	2,140
4x6+4x(2x1,5)C		3.1	23.1	24.5	870
4x16+2x(4x1,5)C		5.1	24.7	26.3	1,140
4x35+2x(4x1,5)C		7.8	31.5	33.5	1,950
4x35+4x2,5		7.8	28.1	29.3	1,800

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CABLE PROPERTIES ELECTRICAL / MECHANICAL

Basic construction		Diameter conductor [mm]	Cable diameter (min) [mm]	Cable diameter (max) [mm]	Cable weight [kg/km]
4x50+1X(7x2,5)		9.5	38.3	40.3	3,150
4x50+1X(4x1,5)C YE		9.5	35	37	2,700
4x70+1X(4x1,5)C YE		11	40.7	42.7	3,650

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CABLE PROPERTIES ELECTRICAL / MECHANICAL

Basic construction		Max. tensile strength [N]	Bending radius moving (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Current carrying capacity [A]
7x1,5		260	79	13.3	23
12x1,5		450	100	13.3	23
18x1,5		670	109	13.3	23
24x1,5		900	121	13.3	23
30x1,5		1,120	135	13.3	23
7x2,5		430	88	7.98	30
12x2,5		750	121	7.98	30
18x2,5		1,120	122	7.98	30
24x2,5		1,500	137	7.98	30
30x2,5		1,870	156	7.98	30
36x2,5		2,250	174	7.98	30
42x2,5		2,625	192	7.98	30
4x1,5		150	67	13.3	23
4x2,5		250	74	7.98	30
4x4		400	81	4.95	41
4x6		600	92	3.3	53
4x10		1,000	112	1.91	74
4x16		1,600	128	1.21	99
4x25		2,500	149	0.7839	131
4x35		3,500	181	0.554	162
5x1,5		180	71	13.3	23
5x2,5		310	78	7.98	30
5x4		500	87	4.95	41
9x4		1,080	125	4.95	41
5x6		750	106	3.3	53
5x10		1,250	119	1.91	74
5x16		2,000	139	1.21	99
5x25		3,120	179	0.7839	131
5x35		4,370	198	0.554	162
4x6+4x(2x1,5)C		600	147	3.3	53
4x16+2x(4x1,5)C		1,600	158	1.21	99
4x35+2x(4x1,5)C		3,500	201	0.554	162
4x35+4x2,5		3,500	176	0.554	162

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CABLE PROPERTIES ELECTRICAL / MECHANICAL

Basic construction		Max. tensile strength [N]	Bending radius moving (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Current carrying capacity [A]
4x50+1X(7x2,5)		5,000	242	0.386	202
4x50+1X(4x1,5)C YE		5,000	233	0.386	202
4x70+1X(4x1,5)C YE		7,000	285	0.28	250

Current carrying capacity acc. VDE 0298-4, Tab. 15, on a surface at 30°C ambient temperature.

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