NSHTÖU - K

Cold Resistant Low Voltage Reeling Cable

CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded tinned copper wires (plain conductor on request)
Seperator	A suitable tape may be applied over the conductor
Insulation	3GI3 type HEPR based elastomer compound
Core Identification	Acc. to VDE 0293-308
Inner Sheath	GM1b type elastomer compound
Sheath	
Reinforcement	Antitorsion textile braided embeded sheath
Outer Sheath	5GM3 type heavy duty special rubber compound.
Color	Black or Yellow

STANDARDS &MAIN CHARACTERISTICS

Construction	DIN VDE 0250-814
General Requirements	DIN VDE 0250-1
Guide to Use	DIN VDE 0298-3
Electrical Tests	DIN VDE 0472-501, 502, 503, 508
Non-Electrical Tests	DIN VDE 0472-401, 402, 602, 303, 615
Under Fire Conditions Tests	DIN VDE 0472-803, 804
Flame Retardant	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1
Oil Resistant	HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

OPERATING CHARACTERISTICS

Rated Voltage	0,6 / 1 kV
Max. Operating AC Voltage	0,7 / 1.2 kV
Max. Operating DC Voltage	0,9 / 1.8 kV
AC Test Voltage	3,5 kV
Conductor Operating Temperature	Max. 90°C
Conductor Short-Circuit Temperature	Max. 250°C
Working Temperature	
Fixed	-45°C ... +60°C
Mobile	-25°C ... +60°C
Min Bending Radius	VDE 0298-3 Tab. 3
Current Carrying Capacities	VDE 0298-4
Travel Speed	
In festoon systems	up to 240 m / min
In reeling applications	up to 120 m / min horizantal
Max. tensile load of cable	20 N / mm^2

Application

In cold areas as reeling cable for winding operation with tensile stress and/or torsional stress and for connection and control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable in dry, damp or wet rooms and in wet industrial conditions.

Ozone Resistant · Cold Resistant · Tear Resistant · Mechanical Stresses Resistance · Uv Resistant · Ex-Proof

Cross Section (mm^2)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
3 x 1,5	11,2 - 14,4	236
3 x 2,5	12,6 - 16,1	305
3 x 4	15,3 - 19,6	395
3 x 6	16,4 - 20,9	525
3 x 10	20,2 - 25,7	765
3 x 16	22,5 - 28,6	1080
3 x 25	27,7 - 35,0	1470
3 x 35	31,7 - 40,0	2030
3 x 50	37,1 - 46,8	2680
3 x 70	42,5 - 53,5	3530
3 x 95	48,2 - 60,6	4400
3 x 120	51,6 - 64,9	5250
3 x 150	56,2 - 70,7	7040
3 x 185	63,3 - 79,4	8320
3 x240	69,9 - 87,7	5730
3 x 25 + 16	30,4 - 38,4	2720
3 x 35 + 16	34,0 - 42,8	3010
3 x 50 + 3 x 25 / 3	37,1 - 46,8	2730
3 x 50 + 25	38,6 - 48,6	3430
3 x 70 + 3 x 35 / 3	42,5 - 53,5	3740
3 x 95 + 50	53,1 - 66,7	5405
3 x 120 + 3 x 70 / 3	51,6 - 64,9	6220
3 x 120 + 70	55,5 - 69,7	6818
3 x 150 + 3 x 70 / 3	56,2 - 70,7	7480
3 x 150 + 70	64,0 - 80,4	9190
3 x 185+ x 95 / 3	63,3 - 79,4	9020
3 x 185 + 95	68,8 - 86,4	9850
3 x 240 + 3 x 120 / 3	69,9 - 87,7	11760

Cross Section (mm²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
4 x 1,5	12,1 - 15,5	274
4 x 2,5	14,7 - 18,7	416
4 x 4	16,6 - 21,1	550
4 x 6	17,7 - 22,6	683
4 x 10	22,0 - 27,8	1018
4 x 16	25,5 - 32,3	1370
4 x 25	31,6 - 39,8	1970
4 x 35	34,5 - 43,6	2610
4 x 50	40,5 - 51,0	3600
4 x 70	46,5 - 58,6	5356
4 x 95	52,7 - 66,2	7018
4 x 120	58,4 - 73,3	8220
4 x 150	63,4 - 79,7	8905
4 x 185	71,2 - 89,4	10730
4 x 240	78,2 - 98,2	13560