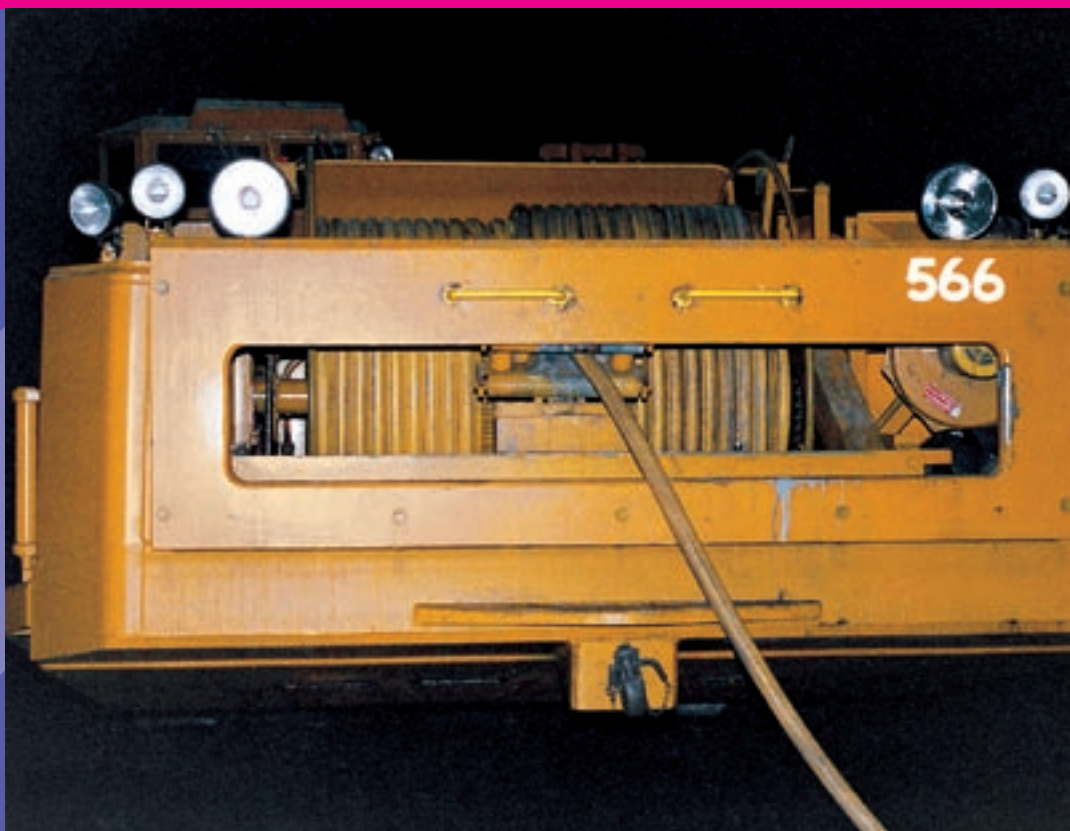




CORDAFLEX(S) NSHTOEU

LHD-Cables For Scoope Operations

ENERGY



Technical Data

	Type	CORDAFLEX(S)
	Type designation	NSHTÖU
	Approvals/ standards	DIN VDE 0250, Part 814 MSHA-P-189-3
	Application (refer also to DIN VDE 0298, Part 3)	For frequently changing dynamic loads, such as reeling cables for scoops (LHDs) in underground mines, suitable for mono-spiral reels and cylincrical reels.
Electrical parameters	Rated voltage	U ₀ /U=0.6/1 kV
	Maximum permissible operating voltage in AC systems	U ₀ /U=0.7/1.2 kV
	Maximum permissible operating voltage in DC systems	U ₀ /U=0.9/1.8 kV
	AC test voltage	2.5 kV
	Current-carrying capacity	According to DIN VDE 0298, Part 4
Thermal parameters	Ambient temperature	
	- Fully flexible operation	-25°C to +80°C
	- Fixed installation	-40°C to +80°C
	Maximum permissible operating temperature of the conductor	90°C
	Short-circuit temperature of the conductor	250°C
Mechanical parameters	Tensile load	Up to 30 N/mm ²
	Torsional stresses	+/- 25°/m
	Minimum bending radii	According to DIN VDE 0298, Part 3
	Minimum distance with S-type directional changes	20 x D
	Travel speed of the scoop	Max. 160 m/min
	Additional tests	Reversed bending test, roller bending test
Chemical parameters	Resistance to oil	Given to DIN VDE 0473, Part 811-2-1 Para. 10 EN 60811-2-1, IEC 60811-2-1
	Behaviour in case of fire	VDE 0482, Part 332-1-2, EN 60332-1-2, IEC 60332-1-2
	Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture



Design features

Type	CORDAFLEX(S)
Conductor (refer also to DIN VDE 0295)	Electrolytic copper, tinned, very finely stranded, Class FS
Insulation (refer also to DIN VDE 0207, Part 20)	Basic material EPR, compound type: 3GI3
Earth conductor	green-yellow core
Core identification	black, grey, brown, green-yellow
Core arrangement	Cores laid-up, length of lay 5 x D
Support element	Centrally arranged Kevlar central support element
Inner sheath (refer also to DIN VDE 0207, Part 21)	Basic material PCP, compound type: 5GM5, colour yellow
Anti-torsion braid	Reinforced braid of polyester threads in a vulcanized bond between inner and outer sheath Surface covered: approx. 25%
Outer sheath (refer also to DIN VDE 0207, Part 21)	Basic material PCP, compound type: 5GM5, colour yellow
Marking	CORDAFLEX (S) NSHTÖU (number of cores) x (cross-section)


Selection and ordering data

Number of cores and nominal cross-section	Order No.	Conductor diameter	Overall diameter of cable	Overall diameter of cable	Conduc- tor resis- tance at 20 °C	Current carrying capacity at 30 °C	Permis- sible short- circuit current (1s)	Approx. net weight for 1000 m	Maximum permis- sible tensile force
		(guidance value)	(guidance value)	(guidance value)					
		Max. value	Min. value	Max. value					
[mm ²]		[mm]	[mm]	[mm]	[Ohm/km]	[A]	[kA]	[kg/km]	[N]

0,6/1 kV NSHTOEU

4 x 16 (6kN)	5DH3 951	5,6	27,5	31,5	1,240	99	1,95	1500	1920
4 x 25 (6 kN)	5DH3 966	7,3	34,0	37,0	0,795	131	3,05	2280	3000
4 x 35 (12kN)	5DH3 952	8,4	37,5	42,0	0,565	162	4,27	2920	4200
4 x 50 (12kN)	5DH3 953	10,3	43,0	48,0	0,393	202	6,10	3970	6000
4 x 50 (30kN)	5DH3 942	10,3	42,0	44,0	0,393	202	6,10	3660	6000
4 x 70 (20kN)	5DH3 954	12,0	47,0	52,0	0,277	250	8,54	5530	8400
4 x 95 (50kN)	5DH3 942	14,0	50,0	53,0	0,210	301	11,59	5920	11400

SANTIAGO:
Angel Guarello 1449 - San Miguel
Teléfono: (56-2) 897 4248 - Fax: (56-2) 793 0583
ANTOFAGASTA:
Armando Mook 47 - Gran Vía
Teléfono: (56-55) 497 287 - Fax: (56-55) 378 409
E-mail: ventas@multiconductores.cl
www.multiconductores.cl