Anhui Feichun Special Cable Co., Ltd.

安徽飞纯特种电缆有限公司

Type NSSHOEU 0.6/1kV

Flexible Power Cable for Water and Seawater Environments

3×25 mm² - 0.6/1kV

Conductor Diameter:	5.6 ÷ 6.3 mm
Outer Diameter:	26.8 ÷ 28.5 mm
Rated Voltage:	0.6/1 kV
Standard:	DIN VDE 0250-812

3×35 mm² - 0.6/1kV

Conductor Diameter:	6.7 ÷ 7.5 mm
Outer Diameter:	29.5 ÷ 32.3 mm
Rated Voltage:	0.6/1 kV
Standard:	DIN VDE 0250-812

Application

Flexible power cables designed for use in water and seawater environments, suitable for flexible use and fixed installation in demanding industrial applications.

Primary Applications:

Open-cast mining, quarries, construction sites, explosion-hazard areas, industrial and agricultural installations

Environment:

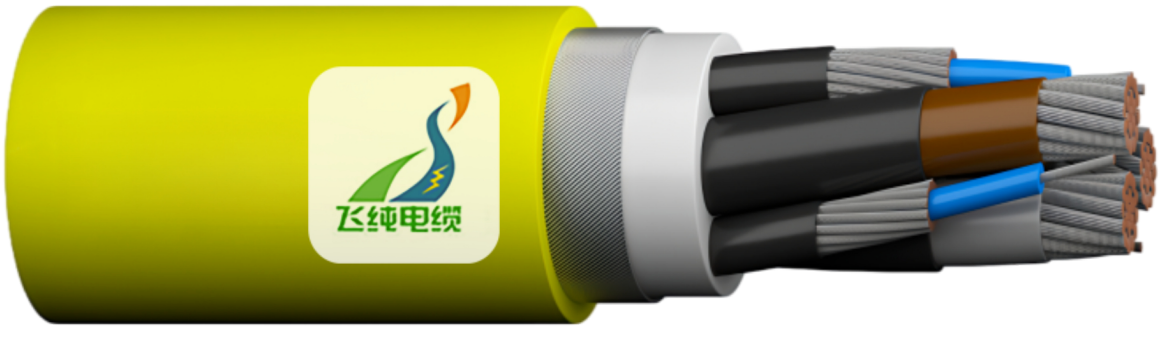
Indoor and outdoor use, waste water up to 40°C, maximum depth 2000 meters

Water Types:

Industrial water, cooling water, surface water, rainwater, mixed water, groundwater, and seawater (limited extent)

Installation:

Heavy mechanical stresses, permanent submersion capability, resistance testing required for aggressive water



Important Note: In aggressive water or water composed of special substances, the cable's resistance properties should be tested. For other specifications, DIN VDE 0298 part 3 applies.

Global Data

Brand:	**PROTOMONT**
Type Designation:	**NSSHOEU**
Standard:	**DIN VDE 0250-812**
Maximum Submersing Depth:	**2000 meters**

Certifications / Approvals

MA – China

MSHA P-189-3

Fire Certificate of Russian Federation

TR-Certificate GOST K

GOST B

Design Features

Conductor:	**Copper, tinned, finely stranded (class 5) DIN EN 60228 / IEC 60228**
Insulation:	**PROTOLON, EPR, Compound type 3GI3 (DIN EN 50363)**
Core Identification:	**Up to 5 cores: gray, black, brown, blue, green/yellow** **From 6 cores: light gray with black digits**
Core Arrangement:	**Three main conductors with protective-earth conductor**
Inner Sheath:	**Vulcanized rubber compound, EPR, GM1B (DIN EN 50363)**
Outer Sheath:	**Synthetic elastomer compound (CPE), 5GM5 (DIN EN 50363), Yellow**

Electrical Parameters

Rated Voltage:	**0.6/1 kV (600/1000V)**
Max. Operating Voltage AC:	**0.7/1.2 kV**
Max. Operating Voltage DC:	**0.9/1.8 kV**
AC Test Voltage:	**3 kV**
Duration of AC Test:	**5 minutes**

Chemical Parameters

Resistance to Fire:	**DIN EN 60332-1-2**
Resistance to Oil:	**DIN EN 60811-404**
Weather Resistance:	**Unrestricted outdoor/indoor, ozone and moisture resistant**
Water Resistance:	**DIN EN 50525-2-21**

Thermal Parameters

Max. Temperature at Conductor:	**90 °C**
Max. Short Circuit Temperature:	**250 °C**
Max. Water Temperature:	**40 °C**
Ambient Temp. Fixed Installation (min):	**-40 °C**
Ambient Temp. Flexible Operation (min):	**-25 °C**
Ambient Temp. Flexible Operation (max):	**60 °C**

Mechanical Parameters

Max. Tensile Load of Cable:	**15 N/mm²**
Torsional Stress:	**100 °/m**
Min. Bending Radius:	**According to DIN VDE 0298 part 3**

Complete Technical Specifications - FEICHUN NSSHÖU-O 3x...

Cores × Cross Section	Part Number	MLFB Number	Outer Ø min (mm)	Outer Ø max (mm)	Net Weight (kg/km)	Max Tensile Force (N)	Capacitance (µF/km)	Inductance (mH/km)	Current Capacity (A)	Short Circuit (kA)
3×1.5	-	5DL1756	11.3	12.3	180	68	0.22	0.33	23	0.21
3×2.5	20004872	5DL1751	12.5	13.6	230	113	0.23	0.32	30	0.36
3×4	-	5DL1760	15.1	16.2	340	180	0.26	0.31	41	0.57
3×6	-	5DL1946	16.2	17.3	415	270	0.30	0.29	53	0.86
3×10	-	5DL1944	20.0	21.1	650	450	0.32	0.28	74	1.43
3×16	-	5DL1311	23.1	24.2	890	720	0.42	0.26	99	2.29
3×25	**-**	**5DL1964**	**26.8**	**28.5**	**1300**	**1125**	**0.42**	**0.26**	**131**	**3.58**
3×35	**20004837**	**5DL1391**	**30.9**	**32.5**	**1730**	**1575**	**0.49**	**0.25**	**162**	**5.01**
3×50	20148227	5DL1320	35.2	38.3	2400	2250	0.39	0.27	202	7.15

Note: Nominal current carrying capacity for multicore cable or three single-core cables in trefoil in permanent operation with DC or AC with 50 up to 60 Hz at 30°C ambient temperature, free in air, three cores loaded (see also VDE 0298-4).

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Professional Cable Solutions for Industrial Applications

FEICHUN SPECIAL CABLES

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