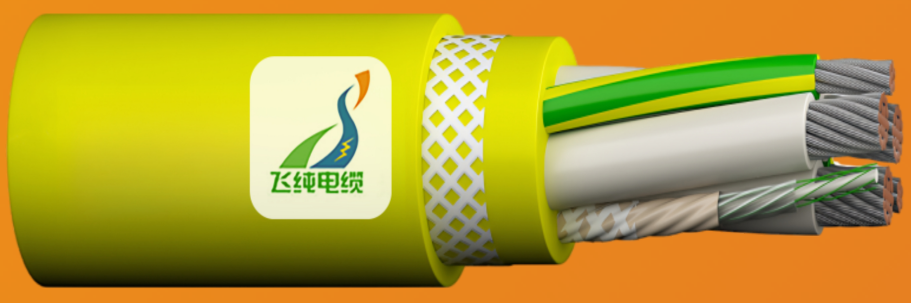
FEICHUN CABLE

Anhui Feichun Special Cable Co., Ltd.
安徽飞纯特种电缆有限公司

NSSHOEU-J

Heavy Duty Rubber Cable for Mining & Industrial Applications



Product Overview

Application

Designed to withstand high mechanical stress. For the connection of heavy duty underground mining, industrial and construction equipment, in dry and damp areas and outdoors. The cable is largely flame-retardant and oil-resistant.

REACH Regulation Notice

The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1%: **CAS 85535-85-9**

Technical Specifications

Electrical Parameters

Nominal Voltage U_0:	**0.6 kV**
Nominal Voltage U:	**1 kV**
Test Voltage:	**3 kV**
Protective Conductor:	**Yes**
Core Identification:	**VDE 0293 (HD308)**

Temperature Parameters

Max. Conductor Temperature:	**90°C**
Fixed Installation Range:	**-40°C to +80°C**
Mobile Application Range:	**-25°C to +60°C**
Reference Ambient Temp:	**30°C**

Construction Standards

Standard:	**VDE 0250 T. 812**
Conductor Class:	**Class 5 - Flexible**
Conductor Material:	**Tinned Copper**
Insulation:	**Rubber 3GI3**
Sheathing:	**Rubber 5GM5**

Performance Features

Flame Retardant:	**VDE 0482-332-1-2/IEC 60332-1-2**
UV Resistant:	**Yes**
Oil Resistant:	**EN 60811-404**
Outdoor Use:	**Yes**

Sheath Color:	**Yellow**

Construction Details

Conductor

Tinned copper, Class 5 flexible construction according to VDE standards, providing excellent flexibility and conductivity for mobile applications.

Insulation

Rubber compound type 3GI3, designed for high mechanical stress resistance and electrical performance up to 90°C conductor temperature.

Outer Sheath

Rubber compound type 5GM5 in distinctive yellow color, providing superior resistance to abrasion, oil, UV radiation, and environmental stress. Suitable for underground mining and harsh industrial environments.

Core Identification

Color-coded cores according to VDE 0293 (HD308) standards for easy identification and safe installation.

Bending Radius Requirements

Cable Diameter Range	Fixed Installation	Free Movement	Cable Entry
< 8 mm	3D	5D	5D
8-12 mm	4D	6D	6D
12-20 mm	4D	6D	6D
> 20 mm	4D	6D	6D

D = Cable outer diameter. Bending radius according to DIN EN 50565-1

Temperature Correction Factors

Current-Carrying Capacity Correction Factors at Ambient Temperatures ≠ 30°C

According to DIN VDE 0298-4, Table 17

Ambient Temperature [°C]	10	15	20	25	30	35	40	45
Correction Factor	1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87

NSSHOEU-J Complete Technical Data Table (With Protective Conductor)

Part No.	Configuration	Resistance	Ampacity	Bending Radius (Fixed)	Bending Radius (Mobile)	Outer Diameter	Tensile Strength	Cu Weight	Net Weight
		Ω/km	A	mm	mm	mm	N	kg/km	kg/km
050128	3×1.5	13.7	23	50	63	12.5	67	43	200
050129	3×2.5	8.21	30	53	66	13.2	112	72	260
050130	3×4	5.09	41	65	81	16.2	180	115	380
051843	3×6	3.39	53	67	82	16.8	270	173	447
052833	3×16	1.24	99	102	153	25.5	720	461	940
051844	3×25	0.795	162	111	139	27.7	1125	720	1800
050140	3×70/35	0.277	250	178	223	44.6	3150	2352	4460
050141	3×95/50	0.21	301	212	266	52.0	4275	3216	5910
050212	3×120/70	0.164	352	216	270	57.0	5400	4128	7300
050891	3×150/70	0.132	404	292	366	60.0	7800	4992	7119
052234	3×240	0.0817	547	306	337	67.4	10800	6912	9810
053651	3×240/120	0.0817	547	325	487	81.2	12600	8064	12614
050131	4×1.5	13.7	23	50	63	12.6	90	58	230
050132	4×2.5	8.21	30	64	80	15.9	150	96	350
050133	4×4	5.09	41	70	88	17.5	240	154	450
050134	4×6	3.39	53	76	94	18.8	360	230	560
050135	4×10	1.95	74	92	115	23.0	600	384	860
050136	4×16	1.24	99	110	137	26.0	960	614	1350
050137	4×25	0.795	131	138	173	32.0	1500	960	2010
050138	4×35	0.565	162	146	182	34.5	2100	1344	2590
050139	4×50	0.393	202	166	208	40.5	3000	1920	3660
050239	4×70	0.277	250	186	233	45.0	4200	2688	4605
050234	4×95	0.21	301	227	284	52.0	5700	3648	6400
050235	4×120	0.164	352	262	328	58.0	7200	4608	7705
050236	4×150	0.132	404	293	366	63.0	9000	5760	8200
050468	4×185	0.108	461	305	381	70.0	11100	7104	10604
052288	4×240	0.0817	547	311	389	76.4	14400	9216	12234

NSSHOEU-J Multi-Core Configurations

Part No.	Configuration	Resistance	Ampacity	Bending Radius (Fixed)	Bending Radius (Mobile)	Outer Diameter	Tensile Strength	Cu Weight	Net Weight
		Ω/km	A	mm	mm	mm	N	kg/km	kg/km
050142	5×1.5	13.7	23	60	76	15.1	112	72	255
050143	5×2.5	8.21	30	69	86	17.2	187	120	385
050144	5×4	5.09	41	78	97	19.4	300	192	560
050145	5×6	3.39	53	86	107	21.4	450	288	670
050146	5×10	1.95	74	94	118	23.5	750	480	1000
050147	5×16	1.24	99	120	151	30.1	1200	768	1570
050148	5×25	0.795	131	142	178	35.5	1875	1200	2340
050237	5×35	0.565	162	176	221	44.1	2625	1680	3400

Part No.	Configuration	Resistance	Ampacity	Bending Radius (Fixed)	Bending Radius (Mobile)	Outer Diameter	Tensile Strength	Cu Weight	Net Weight
		Ω/km	A	mm	mm	mm	N	kg/km	kg/km
051271	5×50	0.393	202	192	240	47.4	3750	2400	3850
051272	5×70	0.277	250	220	275	54.2	5250	3360	5230
051151	5×95	0.21	301	242	303	60.6	7125	4560	6730
051273	5×120	0.164	352	260	325	64.8	9000	5760	8500
050149	7×1.5	13.7	23	68	85	16.9	157	101	410
050150	7×2.5	8.21	30	78	98	19.5	262	168	500
050151	10×1.5	13.7	23	82	103	20.5	225	144	545
050764	11×1.5	13.7	23	88	111	22.1	247	158	600
051188	12×1.5	13.7	23	80	121	20.1	270	173	550
050152	12×2.5	8.21	30	86	108	22.9	450	288	770
051656	14×4	5.09	41	106	160	26.6	840	538	1140
051189	18×1.5	13.7	23	115	92	23.1	405	259	730
050153	18×2.5	8.21	30	111	139	27.8	675	432	1160
052235	21×2.5	8.21	30	118	148	29.6	787	504	1232
051379	19×1.5	13.7	23	95	119	23.7	427	274	750
051380	24×1.5	13.7	23	109	137	27.3	540	346	906
051190	24×2.5	8.21	30	124	155	30.9	900	576	1356

NSSHOEU-O Single & Double Core Configurations (No Protective Conductor)

Part No.	Configuration	Conductor Ø	Resistance	Ampacity	Bending Radius (Fixed)	Bending Radius (Mobile)	Outer Ø	Tensile Strength	Cu Weight	Net Weight
		mm	Ω/km	A	mm	mm	mm	N	kg/km	kg/km
050121	1×16	5.5	1.24	132	46	57	11.4	240	154	260
050359	1×25	6.4	0.795	176	55	83	13.7	375	240	400
050190	1×35	7.5	0.565	218	59	88	14.6	525	336	500
050122	1×50	9.0	0.393	276	67	101	16.7	750	480	680
050123	1×70	10.8	0.277	347	75	113	18.7	1050	672	900
050124	1×95	12.6	0.21	416	84	126	21.0	1425	912	1150
050125	1×120	14.3	0.164	488	94	140	23.3	1800	1152	1440
050410	1×150	15.9	0.132	566	101	152	25.2	2250	1440	1750
050434	1×185	17.5	0.108	644	114	170	28.3	2775	1776	2180
050422	1×240	20.5	0.0817	775	126	189	31.4	3600	2304	2790
050557	1×300	23.1	0.0654	898	142	212	35.3	4500	2880	3460
053299	1×400	26.2	0.0495	1024	158	237	39.5	6000	3840	4284
050227	2×1.5	1.8	13.7	23	47	59	11.8	45	29	190
050738	2×2.5	2.4	8.21	30	51	64	12.8	75	48	210

Technical Notes & Symbols

Symbol Definitions

Dl - Conductor diameter
Rl - Conductor resistance at 20°C
Ibl - Ampacity in air at 30°C ambient temperature
Rbv - Bending radius for fixed installation
Rbb - Bending radius for moving applications
Ø - Outer diameter (approximate)
Fzv - Tensile strength during installation
Cu - Copper weight (GER)
G - Net weight per 1000m

Important Notes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximate values.

All ampacity values are calculated for installation in air at 30°C ambient temperature. Use correction factors for other ambient temperatures as specified in the temperature correction table.

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