NSHTÖU Low Voltage Reeling Cable



APPLICATION

This -V type of cable has been specially developed for vertical reeling applications. Used 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.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
Fixed: -40°C to +80°C
Flexed: -25°C to +80°C

Minimum Bending Radius
Fixed: 4x overall diameter
Flexed: 5x overall diameter

Maximum Tensile Load
20 N/mm^2

Travel Speed
In festoon: up to 180m/min horizontal / 120m/min main gantry

CONSTRUCTION

Conductor
Class 5 tinned copper conductor

Separator
Tape

Insulation
HEPR (Hard Ethylene Propylene Rubber)

Inner Sheath
Rubber compound

Braiding
Anti-torsion textile braid embedded in sheath

Sheath
Rubber compound

Core Identification
Coloured cores according to VDE 0293-308
including earth conductor green-yellow

Sheath Colour
Black or Yellow

STANDARDS

DIN VDE 0250-814, DIN VDE 0250-1, DIN VDE 0298-3, DIN VDE 0472-501/502/503/508, DIN VDE 0472-401/402/602/303/615, DIN VDE 0472-803/804, HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1, EN 60228

Flame Retardant according to IEC/EN 60332-1-2

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.feichuncables.com

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Metal-Coated Wires
1.5	0.26	13.7
2.5	0.26	8.21
4	0.31	5.09
6	0.31	3.39
10	0.41	1.95
16	0.41	1.24
25	0.41	0.795
35	0.41	0.565
50	0.41	0.393
70	0.51	0.277
95	0.51	0.21
120	0.51	0.164
150	0.51	0.132

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY Amps				
	In Air	In Conduit	Reeled		
			1 Layer	2 Layer	3 Layer
1.5	25	24	19	15	12
2.5	32	30	24	18	15
4	43	41	33	25	20
6	56	53	42	32	26
10	78	74	59	45	36
16	104	99	79	60	49
25	138	131	105	80	64
35	170	162	130	99	79
50	212	202	162	123	99
70	263	250	200	153	123
95	316	301	241	184	147
120	370	352	282	215	172
150	424	404	323	246	198

For ambient temperature of 30°C

DE-RATING FACTORS

AIR TEMPERATURE	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
DE-RATING FACTOR	1	0.96	0.91	0.87	0.82	0.76	0.71	0.65

FEICHUN SPECIAL CABLES

Website Address www.feichuncables.com

Whatsapp Account +86 138 5608 5607 & +86 138 5512 3218

Email Address ziyu.huang@feichuncables.com & zihao.yang@feichuncables.com