CABLES
Type: NSSHÖU 0.6/1 kV
Document No.: 08-400-R1
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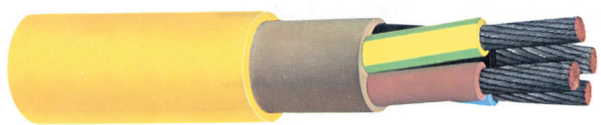
German Cathodic Protection

Ethylene Propylene Rubber (EPR) has excellent physical and ageing properties and a high maximum permissible operating temperature. Therefore, EPR insulated cables are generally used in heavy-duty equipment subject to high mechanical stresses such as in mines and quarries, and also in areaswith a risk of explosion.



Conductors:	Finely-stranded copper conductor of tinned copper wires. Class 5 according to DIN VDE 0295 and IEC 228
Insulation:	EPR insulation (Ozone and weather resistant)
Inner sheath:	Rubber for all multi-core cables
Outer sheath:	Synthetic vulcanised rubber, oil-resistant according to DIN VDE 0473 Part 811-2-1, EN/IEC 60811-2-1
Colour:	Colour of outer sheath: yellow
Operating temperature:	90° C
Short circuit temperature:	200° C
Special application:	Multicore cables marked with (*) can be used for equipment in waste water process, cooling, surface and rain water. * Tested as flame retardant cables and accepted by US Mine Safety and Health Administration (MSHA)
Standard:	DIN VDE 0298 Part 3, Minimu bending radii VDE 0482 Part 332-1-2, Behaviour in case of fire, EN/IEC 60332-1-2 VDE 0250, Cables, wires and flexible cords for power insulation. Rubber insulated flexible cable NS-SHÖU VDE 0298 Part 4, Current carrying capacity
Types:	J - with protective earth conductor O - without protective earth conductor

CORES x CROSS SECTIONAL AREA	CONDUCTOR		SHEATH		RESISTANCE DC 20° C	CURRENT CAPACITY AMBIENT TEMP 30° C	WEIGHT	NOMINAL DELIVERY LENGTH
	DIAMETER	INSULATION THICKNESS	OUTER DIAMETER	THICKNESS				
mm²	mm	mm	mm	mm	Ohm/km	A	kg/km	m
1 x 16	6.3	1.2	12.5	1.6	1.240	99	255	1 000
1 x 25	7.8	1.4	15.0	2.0	0.795	131	283	1 000
1 x 35	9.2	1.4	16.5	2.0	0.565	162	493	1 000
1 x 50	11.0	1.6	18.5	2.0	0.393	202	670	1 000
1 x 70	13.1	1.6	20.5	2.2	0.277	250	900	1 000
1 x 95	15.1	1.8	23.5	2.2	0.210	301	1 140	1 000
1 x 120	17.0	1.8	25.5	2.5	0.164	352	1 430	1 000
1 x 150	19.0	2.0	27.5	2.5	0.132	404	1 740	1 000
1 x 185	21.0	2.2	31.0	3.0	0.108	461	2 150	500
1 x 240	24.0	2.4	34.5	3.0	0.082	633	2 760	500
2 x 1.5*	1.6	0.8	13.0	1.6	13.70	23	187	1 000
2 x 2.5*	2.6	0.9	14.0	1.6	8.210	30	239	1 000
2 x 4*	3.2	1.0	17.0	2.0	5.090	41	356	1 000
3 x 1.5*	1.6	0.8	13.5	1.6	13.70	23	210	1 000
3 x 2.5*	2.6	0.9	15.0	1.6	8.210	30	273	1 000
3 x 4*	3.2	1.0	1.0	2.0	5.090	41	408	1 000
3 x 6*	3.9	1.0	19.5	2.0	3.390	53	510	1 000
3 x 10*	5.1	1.2	23.0	2.2	1.950	74	770	1 000
4 x 1.5*	1.6	0.8	14.0	1.6	13.70	23	239	1 000
4 x 2.5*	2.6	0.9	17.0	2.0	8.210	30	364	1 000
4 x 4*	3.2	1.0	19.0	2.0	5.090	41	477	1 000
4 x 6*	3.9	1.0	20.5	2.0	3.390	53	600	1 000
4 x 10*	5.1	1.2	25.0	2.2	1.950	74	920	1 000
4 x 16*	6.3	1.2	30.0	2.5	1.240	99	1 370	1 000
4 x 25*	7.8	1.4	35.5	3.0	0.795	131	2 010	1 000
4 x 35*	9.2	1.4	38.5	3.0	0.565	162	2 530	1 000
4 x 50*	11.0	1.8	45.0	3.5	0.393	202	3 520	1 000
5 x 1.5	1.6	0.8	15.0	1.6	13.70	23	266	1 000
5 x 2.5	2.6	0.9	18.0	2.0	8.210	30	403	1 000
5 x 4	3.2	1.0	20.5	2.0	5.090	41	540	1 000
5 x 6	3.9	1.0	23.0	2.2	3.390	53	720	1 000
5 x 10	5.1	1.2	27.0	2.2	1.950	74	1 050	1 000
5 x 16	6.3	1.2	32.5	2.5	1.240	99	1 580	500
5 x 25	7.8	1.4	38.5	3.0	0.795	131	2 320	500

Core identification:

<u>Core colour code NSSHÖU-J</u>

3 cores (green-yellow, black, blue)
4 cores (green-yellow, black, blue, brown)
5 cores (green-yellow, black, blue, brown, black)

<u>Core colour code NSSHÖU-O</u>

1 core (black)
2 cores (black, blue)
3 cores (black, blue, brown)
4 cores (black, blue, brown, black)
5 cores (black, blue, brown, black, black)

Voltage rating:

Rated voltage : *U0/U* = 0.6/1 kV

Maximum permissible voltage

- DC System : *Um* = 1.8 kV

- AC single-phase system
  Phase-to-Phase : *Um* = 1.4 kV
  Phase-to-Earth : *Um* = 0.7 kV

- AC three-phase system : *Um* = 1.2 kV