

Application

NSSHOEU (NSSHOEU-O / NSSHOEU-J) is a heavy rubber trailing cable to DIN VDE 0250-812, rated 0.6/1 kV, for connections subject to very high mechanical stress. The fine-wire class 5 copper conductors are EPR-insulated, laid up and enclosed by a rubber inner sheath and a tough polychloroprene (PCP) outer sheath. It is used as a connecting and trailing cable for cranes, conveyors, hoists and mobile equipment in surface and underground mining, on building sites, in heavy industry, indoors and outdoors. The cable is oil-, ozone-, chemical- and abrasion-resistant with high notch resistance.



CONSTRUCTION

Conductor	Fine-wire stranded tinned annealed copper, class 5 to IEC/EN 60228 (VDE 0295).
Insulation	EPR rubber, compound type 3GI3 (DIN VDE 0207-20).
Inner sheath	Rubber, compound type GM1b (DIN VDE 0207-21), over the laid-up cores.
Outer sheath	Polychloroprene (PCP) rubber, compound type 5GM5 (DIN VDE 0207-21), round, yellow; abrasion-, oil- and weather-resistant.
Core identification	Single core black; up to 5 cores colour-coded to VDE 0293-308 (HD 308 S2); from 6 cores black with white numbers; G types with green/yellow protective conductor.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	0.6/1 kV.
Test voltage	3 kV.
Standard	DIN VDE 0250-812.
Conductor standard	IEC/EN 60228 class 5.
Flame-retardant	IEC/EN 60332-1-2.
Oil resistance	IEC/EN 60811-404.
Max. conductor temperature	+90 °C.
Permitted outer cable temperature, fixed	-40 °C to +80 °C.
Permitted outer cable temperature, moved	-25 °C to +80 °C.
Min. bending radius, fixed	4 × outer diameter.
Min. bending radius, moved	10 × outer diameter (15 × without forced guiding).
Reaction to fire (CPR)	Outside the scope of EN 50575 (flexible trailing / reeling cable).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
3 × 1.5	13.3	11.8	200
4 × 1.5	13.3	12.7	230
5 × 1.5	13.3	13.6	280
3 × 2.5	7.98	13.2	260
4 × 2.5	7.98	15.4	360
5 × 2.5	7.98	16.5	420
7 × 2.5	7.98	20	600
12 × 2.5	7.98	26	860
4 × 4	4.95	16.9	470
5 × 4	4.95	18.2	550
4 × 6	3.3	18.3	580
5 × 6	3.3	20.6	740
4 × 10	1.91	22.3	950
5 × 10	1.91	24.1	1100
1 × 16	1.21	10.9	260
4 × 16	1.21	26.1	1400
5 × 16	1.21	28.3	1720
1 × 25	0.78	13.3	390
4 × 25	0.78	31.2	2000
1 × 35	0.554	14.4	500
4 × 35	0.554	34.1	2700
1 × 50	0.386	16.7	680
4 × 50	0.386	41	3700
1 × 70	0.272	18.9	900
1 × 95	0.206	21	1150
1 × 120	0.161	23.3	1440
1 × 150	0.129	25.2	1750
1 × 185	0.106	28.4	2180
1 × 240	0.0801	31.4	2790

Outer diameters and weights are nominal manufacturer values of the leading reference source; conductor resistance is the maximum per IEC/EN 60228 class 5. All values are indicative and non-binding.