

Applications

SIMBAL 'FLEXIMINING' NSSHOU' cables are especially designed for underground mining applications, they give high resistance against hot penetration and high abrasion resistance.

Design

- Conductor** :- Flexible plain copper, Class 5 to IEC 60228 & VDE0295
- Insulation** :- EPR Rubber DIN VDE 0207 part 20
- Inner sheath** :- Rubber GM1b Textile bandaging or Open support braid
- Outer Sheath** :- PCP mixed compound 5GM5—Yellow

Marking

NSSHOU 0.6/1kV core x cross section

Core Identification

Up to 4 cores - colour coded in acc. With VDE 0293

From 5 cores - black cores with white numbers

Always inc. Earth core (G/Y)



**FLEXIBLE CABLE ESPECIALLY
DESIGNED FOR MINING APPLICATIONS**

Cable Specification

No. of cores & cross section	Part No.	Tensile Strength	Diameter Approx	Weight Approx
1c x 16mm ²	08045 1600 01	240N	10.3mm	0.230 kg/m
1c x 25mm ²	08045 2500 01	375N	11.8mm	0.335 kg/m
1c x 35mm ²	08045 3500 01	525N	13.1mm	0.435 kg/m
1c x 50mm ²	08045 5000 01	750N	15.5mm	0.620 kg/m
1c x 70mm ²	08045 7000 01	1050N	17.4mm	0.835 kg/m
1c x 95mm ²	08045 9500 01	1425N	19.5mm	1.070 kg/m
1c x 120mm ²	08045 1200 01	1800N	21.4mm	1.340 kg/m
1c x 150mm ²	08045 1500 01	2250N	23.8mm	1.650 kg/m
1c x 185mm ²	08045 1850 01	2775N	17.4mm	0.835 kg/m
1c x 240mm ²	08045 2400 01	3600N	19.5mm	1.070 kg/m
1c x 300mm ²	08045 3000 01	4500N	21.4mm	1.340 kg/m
<hr/>				
2c x 1.50mm ²	08045 0150 02	160N	10.6mm	0.160 kg/m
2c x 2.50mm ²	08045 0250 02	200N	11.5mm	0.200 kg/m
2c x 4mm ²	08045 0400 02	260N	12.7mm	0.260 kg/m
<hr/>				
3c x 1.50mm ²	08045 0150 03	68N	11mm	0.171 kg/m
3c x 2.50mm ²	08045 0250 03	113N	11.9mm	0.213 kg/m
3c x 4mm ²	08045 0400 03	180N	13.3mm	0.295 kg/m
3c x 6mm ²	08045 0600 03	270N	14mm	0.347 kg/m
3c x 10mm ²	08045 1000 03	450N	17.1mm	0.505 kg/m
3c x 16mm ²	08045 1600 03	720N	20mm	0.775 kg/m
3c x 25mm ²	08045 2500 03	1125N	23.9mm	1.160 kg/m
3c x 35mm ²	08045 3500 03	1575N	26.4mm	1.450 kg/m
3c x 50mm ²	08045 5000 03	2250N	30.9mm	2.060kg/m
3c x 70mm ²	08045 7000 03	3150N	36.3mm	2.870 kg/m
3c x 95mm ²	08045 9500 03	4275N	42.4mm	3.820 kg/m
3c x 120mm ²	08045 1200 03	5400N	46.2mm	5.000 kg/m
3c x 150mm ²	08045 1500 03	6750N	52mm	5.890 kg/m
<hr/>				
3c x 50mm ² + 3 x 25/3	08045 5000 03SP	2250N	30.9mm	2.320 kg/m
3c x 70mm ² + 3 x 25/3	08045 7000 03SP	3150N	36.3mm	0.295 kg/m
3c x 95mm ² + 3 x 25/3	08045 9500 03SP	4275N	45.3mm	0.347 kg/m
3c x 120mm ² + 3 x 25/3	08045 1200 03SP	5400N	46.2mm	0.505 kg/m
3c x 150mm ² + 3 x 25/3	08045 1500 03SP	6750N	53.6mm	0.775 kg/m
3c x 185mm ² + 3 x 25/3	08045 1850 03SP	8325N	56.5mm	1.160 kg/m
3c x 240mm ² + 3 x 25/3	08045 2400 03SP			
3c x 300mm ² + 3 x 25/3	08045 3000 03SP	13500N	74.3mm	2.060kg/m

Mechanical Properties

Bending Radii (Dynamic Installations) 10 x Cable diameter
Tensile Strength In acc. With DIN VDE 0298-300
Max travelling speed 160 m/min (faster speeds may be available on request)

Chemical Properties

For Indoor & Outdoor applications
Flame & Fire retardant in acc. DIN VDE 0482 part 265-2-1 / EN50265
Oil resistant, Lead & Silicon free, Halogen free

Electrical & Thermal Properties

Nominal Voltage U₀ / U 600 / 1000V

Test Voltage 3000 V - 50Hz in AC
Current Rating See below

Max surface temperature
- fixed installation - 40 deg C up to + 80 deg C
- mobile installation - 25 deg C up to + 80 deg C

No. of cores & cross section	Part No.	Tensile Strength	Diameter Approx	Weight Approx
4c x 1.50mm ²	08045 0150 04	90N	11.8mm	0.204 kg/m
4c x 2.50mm ²	08045 0250 04	150N	12.8mm	0.245 kg/m
4c x 4mm ²	08045 0400 04	240N	13.8mm	0.338 kg/m
4c x 6mm ²	08045 0600 04	360N	15.9mm	0.453 kg/m
4c x 10mm ²	08045 1000 04	600N	18.4mm	0.663 kg/m
4c x 16mm ²	08045 1600 04	960N	22.6mm	1.020 kg/m
4c x 25mm ²	08045 2500 04	1500N	25.9mm	1.480 kg/m
4c x 35mm ²	08045 3500 04	2100N	29.9mm	1.930 kg/m
4c x 50mm ²	08045 5000 04	3000N	35.1mm	2.622kg/m
4c x 70mm ²	08045 7000 04	4200N	41mm	2.755 kg/m
4c x 95mm ²	08045 9500 04	5700N	46.3mm	4.810 kg/m
4c x 120mm ²	08045 1200 04	7200N	51.9mm	6.300 kg/m
4c x 150mm ²	08045 1500 04	9000N	56.9mm	7.578 kg/m
<hr/>				
5c x 1.50mm ²	08045 0150 05	113N	12.7mm	0.245 kg/m
5c x 2.50mm ²	08045 0250 05	188N	13.7mm	0.297 kg/m
5c x 4mm ²	08045 0400 05	300N	15.7mm	0.414 kg/m
5c x 6mm ²	08045 0600 05	450N	17.1mm	0.580 kg/m
5c x 10mm ²	08045 1000 05	750N	20mm	0.765 kg/m
5c x 16mm ²	08045 1600 05	1200N	25.8mm	1.320 kg/m
5c x 25mm ²	08045 2500 05	1875N	30.8mm	1.990 kg/m
<hr/>				
7c x 1.50mm ²	08045 0150 07	158N	13.7mm	0.288 kg/m
8c x 1.50mm ²	08045 0150 08	180N	14.6mm	0.325 kg/m
12c x 1.50mm ²	08045 0150 12	315N	17.8mm	0.495 kg/m
14c x 1.50mm ²	08045 0150 14	427N	19.9mm	0.620 kg/m
19c x 1.50mm ²	08045 0150 19	550N	25mm	0.795 kg/m
<hr/>				
7c x 2.50mm ²	08045 0250 07	225N	16.5mm	0.400 kg/m
8c x 2.50mm ²	08045 0250 08	300N	16.8mm	0.452 kg/m
12c x 2.50mm ²	08045 0250 12	450N	18.4mm	0.561 kg/m
14c x 2.50mm ²	08045 0250 14	525N	19.7mm	0.660 kg/m
18c x 2.50mm ²	08045 0250 18	675N	22.2mm	0.840 kg/m
19c x 2.50mm ²	08045 0250 19	712N	22.3mm	0.900 kg/m
24c x 2.50mm ²	08045 0250 24	900N	23.8mm	1.009 kg/m
<hr/>				
12c x 4mm ²	08045 0400 12	720N	21.8mm	0.831 kg/m
12c x 6mm ²	08045 0600 12	1080N	24.9mm	1.129 kg/m