

Applications

SIMBAL 'NSHTOU-J Drumflex' drum reeling cables are specially designed for reeling and winding applications where tensile and torsional stresses can be applied to the cable simultaneously. They are suitable for dry, humid and wet room installations, and for outdoor use in a variety of applications including construction sites. The cable can be used for travelling speeds up to 120 m/min.

Design

1. **Conductor** :- Tinned Copper strand, Class 5 to DIN VDE 0295
2. **Insulation** :- EPR Rubber compound
3. **Inner sheath** :- PCP (Neoprene)
4. **Textile weave** :- Vulcanised between Inner & Outer sheath
5. **Outer Sheath** :- PCP (Neoprene)
6. **Colour** :- Black


Marking

NSHTOU-J, 0.6/1kV, core x cross section

Core Identification

Up to 5 cores - colour coded in acc. With VDE 0293

From 7 cores - black cores with white numbers + green/yellow earth core

Standards

DIN VDE 0250

Mechanical Properties

Bending Radii (Dynamic Installations)	7.5 x Cable diameter
Tensile Strength	20 N/mm ²
Max travelling speed	120 m/min (faster speeds may be available on request)

Chemical Properties

For Indoor & Outdoor applications
Flame & Fire retardant in acc. with IEC 60332 part 1
Oil resistant, Moisture, UV & Ozone resistant

Electrical & Thermal Properties

Nominal Voltage U₀ / U 600 / 1000V

Test Voltage 2500 V - 50Hz in AC

Current Rating See below

Max surface temperature		
- fixed installation	- 50 deg C up to + 90 deg C	
- mobile installation	- 40 deg C up to + 90 deg C	
Max Conductor temperature		
- In operation	+ 90 deg C	
- In short circuit	+ 250 deg C	

Cable Specification

Number of cores & nominal cross section	Part No.	Gland PG (Metric)	Current rating at 30 deg C	Outer diameter Approx	Weight Approx
4c x 1.5mm ²	08043 0150 04	PG21 / M25	20 Amps	15mm	0.290 kg/m
5c x 1.5mm ²	08043 0150 05	PG21 / M25	20 Amps	17.5mm	0.345 kg/m
7c x 1.5mm ²	08043 0150 07	PG29 / M32	20 Amps	19mm	0.485 kg/m
12c x 1.5mm ²	08043 0150 12	PG29 / M32	20 Amps	21.5mm	0.650 kg/m
18c x 1.5mm ²	08043 0150 18	PG36 / M40	20 Amps	27.5mm	0.910 kg/m
24c x 1.5mm ²	08043 0150 24	PG36 / M40	20 Amps	31mm	1.105 kg/m
30c x 1.5mm ²	08043 0150 30	PG42 / M50S	20 Amps	33.5mm	1.305 kg/m
42c x 1.5mm ²	08043 0150 42	PG42 / M50	20 Amps	37mm	1.776 kg/m
4c x 2.5mm ²	08043 0250 04	PG21 / M25	25 Amps	17mm	0.380 kg/m
5c x 2.5mm ²	08043 0250 05	PG29 / M32	25 Amps	20mm	0.490 kg/m
7c x 2.5mm ²	08043 0250 07	PG29 / M32	25 Amps	21mm	0.616 kg/m
8c x 2.5mm ²	08043 0250 08	PG29 / M32	25 Amps	23.5mm	0.700 kg/m
12c x 2.5mm ²	08043 0250 12	PG36 / M40	25 Amps	27.5mm	0.910 kg/m
18c x 2.5mm ²	08043 0250 18	PG36 / M40	25 Amps	30.5mm	1.195 kg/m
24c x 2.5mm ²	08043 0250 24	PG42 / M50S	25 Amps	35.5mm	1.580 kg/m
30c x 2.5mm ²	08043 0250 30	PG42 / M50	25 Amps	37mm	1.850 kg/m
45c x 2.5mm ²	08043 0250 45	M63S	25 Amps	47mm	3.070 kg/m
50c x 2.5mm ²	08043 0250 50	M63	25 Amps	49mm	3.200 kg/m
4c x 4mm ²	08043 0400 04	PG29 / M32	36 Amps	19mm	0.490 kg/m
5c x 4mm ²	08043 0400 05	PG29 / M32	36 Amps	22.5mm	0.625 kg/m
4c x 6mm ²	08043 0600 04	PG29 / M32	47 Amps	21.5mm	0.580 kg/m
5c x 6mm ²	08043 0600 05	PG36 / M40	47 Amps	26mm	0.885 kg/m
4c x 10mm ²	08043 1000 04	PG36 / M40	64 Amps	25.9mm	0.980 kg/m
5c x 10mm ²	08043 1000 05	PG36 / M40	64 Amps	30.5mm	1.225 kg/m
4c x 16mm ²	08043 1600 04	PG36 / M50S	86 Amps	29.1mm	1.335 kg/m
5c x 16mm ²	08043 1600 05	PG42 / M50S	86 Amps	34.5mm	1.630 kg/m
4c x 25mm ²	08043 2500 04	PG42 / M50	114 Amps	34.4mm	1.985 kg/m
5c x 25mm ²	08043 2500 05	PG42 / M50	114 Amps	37.8mm	2.530 kg/m

Cable Specification (Continued)

Number of cores & nominal cross section	Part No.	Gland PG (Metric)	Current rating at 30 deg C	Outer diameter Approx	Weight Approx
4c x 35mm ²	08043 3500 04	PG48 / M50	140 Amps	38.6mm	2.570 kg/m
5c x 35mm ²	08043 3500 05	PG48 / M63	140 Amps	43.4mm	3.420 kg/m
4c x 50mm ²	08043 5000 04	M63S	180 Amps	45mm	3.600 kg/m
4c x 70mm ²	08043 7000 04	M63	242 Amps	52.5mm	4.660 kg/m
4c x 95mm ²	08043 9500 04	M75S	293 Amps	60mm	6.105 kg/m
4c x 120mm ²	08043 1200 04	M75	340 Amps	64.5mm	7.450 kg/m
4c x 150mm ²	08043 1500 04		425 Amps	71mm	9.090 kg/m
4c x 185mm ²	08043 1850 04		475 Amps	74.9mm	9.730 kg/m