

Applications

SIMBAL 'TROMMELFLEX PUR-HF' drum reeling cables are suitable for use in dry and damp areas, explosive environments and for various heavy duty outdoor applications such as hoisting gear, transportation systems, motorised cable reels rail traction motors and agricultural machinery plus many other applications where high mechanical stresses are involved.

Design

1. **Conductor** :- Flexible plain copper, Class 5 to DIN VDE 0295
2. **Insulation** :- Polyester base
3. **Inner sheath** :- Special polyurethane with support braid from textile threads in between inner & outer sheath
4. **Outer Sheath** :- Special polyurethane, flame resistant, halogen free.
5. **Colour** :- Black

Marking

Trommelflex PUR-HF 0.6/1kV core x cross section

Core Identification

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

From 7 cores - white cores with black numbers

Standards

VDE 0250

2006/95/EC—Guideline CE


Mechanical Properties

Bending Radii (Dynamic Installations)	6 x Cable diameter
Tensile Strength	25 N/mm ²
Max travelling speed	180 m/min (faster speeds may be available on request)

Chemical Properties

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

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	08042 0150 04TR	PG11 / M20S	20 Amps	11.2mm	0.155 kg/m
5c x 1.5mm ²	08042 0150 05TR	PG13.5 / M20S	20 Amps	11.8mm	0.178 kg/m
7c x 1.5mm ²	08042 0150 07TR	PG16 / M20	20 Amps	13.5mm	0.218 kg/m
12c x 1.5mm ²	08042 0150 12TR	PG29 / M25	20 Amps	17mm	0.363 kg/m
18c x 1.5mm ²	08042 0150 18TR	PG29 / M25	20 Amps	18.1mm	0.459 kg/m
24c x 1.5mm ²	08042 0150 24TR	PG29 / M32	20 Amps	20.9mm	0.590 kg/m
30c x 1.5mm ²	08042 0150 30TR	PG29 / M32	20 Amps	23mm	0.720 kg/m
42c x 1.5mm ²	08042 0150 42TR	PG36 / M40	20 Amps	29.5mm	0.980 kg/m
4c x 2.5mm ²	08042 0250 04TR	PG13.5 / M20	25 Amps	12.3mm	0.208 kg/m
5c x 2.5mm ²	08042 0250 05TR	PG16 / M20	25 Amps	13mm	0.230 kg/m
7c x 2.5mm ²	08042 0250 07TR	PG21 / M25	25 Amps	14.7mm	0.315 kg/m
12c x 2.5mm ²	08042 0250 12TR	PG29 / M32	25 Amps	20.4mm	0.485 kg/m
18c x 2.5mm ²	08042 0250 18TR	PG29 / M32	25 Amps	20.5mm	0.679 kg/m
24c x 2.5mm ²	08042 0250 24TR	PG29 / M32	25 Amps	23.6mm	0.860 kg/m
30c x 2.5mm ²	08042 0250 30TR	PG36 / M40	25 Amps	26.8mm	1.080 kg/m
4c x 4mm ²	08042 0400 04TR	PG16 / M20	36 Amps	13.6mm	0.281 kg/m
5c x 4mm ²	08042 0400 05TR	PG21 / M25	36 Amps	14.5mm	0.318 kg/m
4c x 6mm ²	08042 0600 04TR	PG21 / M25	47 Amps	14.9mm	0.372 kg/m
5c x 6mm ²	08042 0600 05TR	PG21 / M25	47 Amps	17.4mm	0.435 kg/m
4c x 10mm ²	08042 1000 04TR	PG29 / M32	64 Amps	18.9mm	0.615 kg/m
5c x 10mm ²	08042 1000 05TR	PG29 / M32	64 Amps	20.5mm	0.704 kg/m
4c x 16mm ²	08042 1600 04TR	PG29 / M32	86 Amps	22.1mm	0.924 kg/m
5c x 16mm ²	08042 1600 05TR	PG36 / M40	86 Amps	24.2mm	1.067 kg/m
4c x 25mm ²	08042 2500 04TR	PG13.5 / M20S	114 Amps	25.5mm	1.270 kg/m
4c x 35mm ²	08042 3500 04TR	PG16 / M20	140 Amps	30mm	1.778 kg/m
4c x 50mm ²	08042 5000 04TR	PG29 / M25	180 Amps	35.6mm	2.650 kg/m
4c x 70mm ²	08042 7000 04TR	PG29 / M25	242 Amps	43.6mm	3.380 kg/m
4c x 95mm ²	08042 9500 04TR	PG29 / M32	293Amps	49.2mm	4.695 kg/m
4c x 120mm ²	08042 1200 04TR	PG29 / M32	340 Amps	54.3mm	5.565 kg/m
4c x 150mm ²	08042 1500 04TR	PG36 / M40	370 Amps	58.9mm	6.933 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
4G16 + 2 x (4x1.5) C	08042 1600 04TR-SP	PG36 / M40	86 Amps	25.3mm	1.200 kg/m
5G4 + 10 x 2.5mm ²	08042 0400 05TR-SP	PG29 / M32	36 Amps	21.9mm	0.700 kg/m
19G2.5 + 5 x 1.50(C)	08042 0250 19TR-SP	PG36 / M40	25 Amps	23.8mm	0.850 kg/m
25G1.5 + 5 x 1.50(C)	08042 0150 25TR-SP	PG29 / M32	20 Amps	23.4mm	0.704 kg/m
3 X (2 X 1.0) C	08042 0100 06TR-SP	PG21 / M25	16 Amps	17mm	0.420 kg/m
5 X (2 X 2.5) + 2 X (2 X 1.5C)	08042 0250 10TR-SP	PG36 / M40	25 Amps	22.5mm	0.650 kg/m
6 X (2 X 2.5) + 2 X (2 X 1.5C)	08042 0250 12TR-SP	PG36 / M40	25 Amps	29.7mm	1.033 kg/m
8 X 6 G 2.5	08042 0250 48TR-SP	PG48 / M50	25 Amps	43.5mm	2.485 kg/m