

TPS CABLE



TPS1.5mm²



TPS2.5mm²

Description:

Twin and earth polymeric V90 insulated and 3V-90 over sheathed cables for installations at working voltages up to and including 450/750V.

Application:

Electrical general wiring applications in power and lighting circuits for domestic and commercial installations.

Types:

TPS1.5 and TPS2.5

Features:

- ✓ Active core identification by continuous co-extruded external red stripe
- ✓ Meter marking from 100m to 0 ...
- ✓ Durable and stackable reinforced reel from fully recycled HDPE
 - Integral carry handle makes it 'reel' easy to shift around site
 - 100% recyclable reel to reduce landfill when you're finished
 - Proprietary easy-stripping outer sheath for faster fit-outs
 - Low friction outer surface for easy installation in conduit etc
- ✓ 25 years product only replacement warranty [see installation conditions]

Installation:

Cable installation must comply with requirements of AS/NZS 3000:2018. Cable must be suitably de-rated when partially or fully covered with thermal insulation material. Cables must be protected against mechanical damage [including rodents, abrasion and vibration], hot and cold surfaces and contaminants [including dirt, snow, ice, UV and solar radiation] and condensation. The minimum bend radius should be six times the cable diameter during pulling and four times the diameter for final positioning. Where cables are not inside conduit or on cable trays, they must be supported at suitable intervals to prevent sagging, using correctly rated ties or clips. Any aperture through which the cable passes shall be bushed or shaped to minimize abrasion of the cable. Not suitable where cable is in contact with Polystyrene, ABS, Polycarbonate and Acrylic [e.g. cool room and EPS panel walls etc.] or any harmful chemicals [including but not limited to bitumen, acetaldehyde, acetone, and aromatic hydrocarbons like benzene and toluene].

Technical Specifications:

Rated voltage	450/750V
Construction	2 cores and earth
Colour	Line: Red / Neutral: Black / Earth : Green with yellow stripe / Outer sheath: white
Type of conductor	Seven strands of high conductivity copper
Insulation	V-90
Outer sheath	3V-90 PVC
Cable flexibility	Semi-rigid, for permanent installations only
Temperature	from 0 to 90°C

Dimensions

	TPS1.5	TPS2.5
Conductor and earth cross section [mm ²]	1.50	2.50
Nominal insulation thickness [mm]	0.60	0.70
Minimum insulation thickness [mm]	0.44	0.53
Nominal outer sheath thickness [mm]	0.90	1.00
Minimum outer sheath thickness [mm]	0.67	0.75
Cable length [m]	100	100
Approximate weight – reel included [kg/100m]	11.5	16.5

Electrical Characteristics:

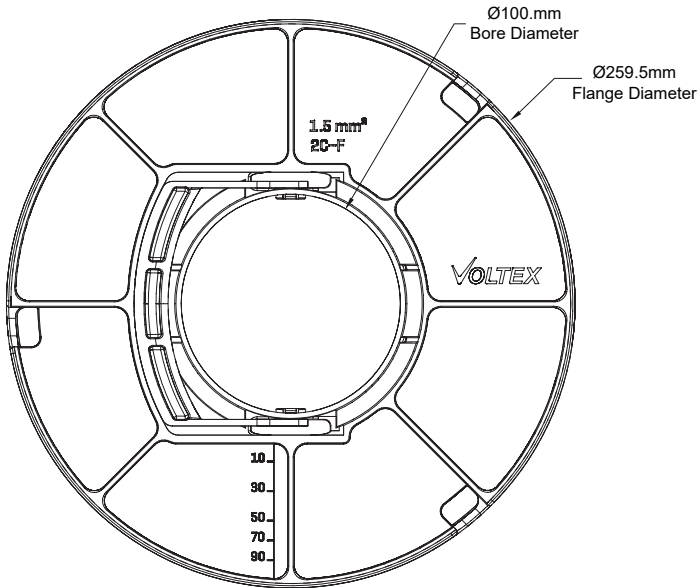
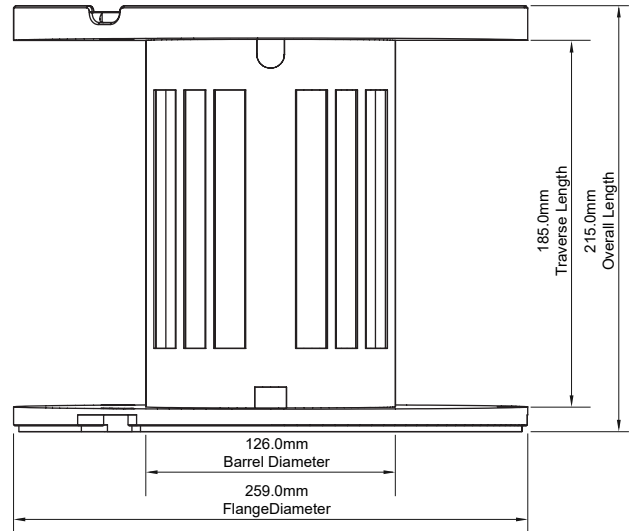
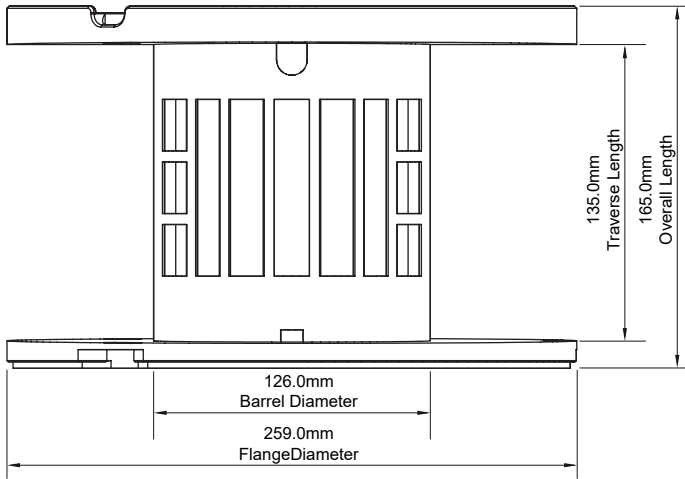
ELECTRICAL CHARACTERISTICS	TPS1.5	TPS2.5
Max. Conductor AC resistance at 50 Hz [max]	16.5 Ohm/Km	9.01 Ohm/Km
Inductive reactance at 50Hz	0.1110hm/Km	0.102 Ohm/Km
Insulation resistance at 20°C	50 Mohm.Km	50 Mohm.Km
Max. DC resistance of the conductor at 20°C	13.6 Ohm/Km	7.41 Ohm/Km

Current Carrying Capacity:

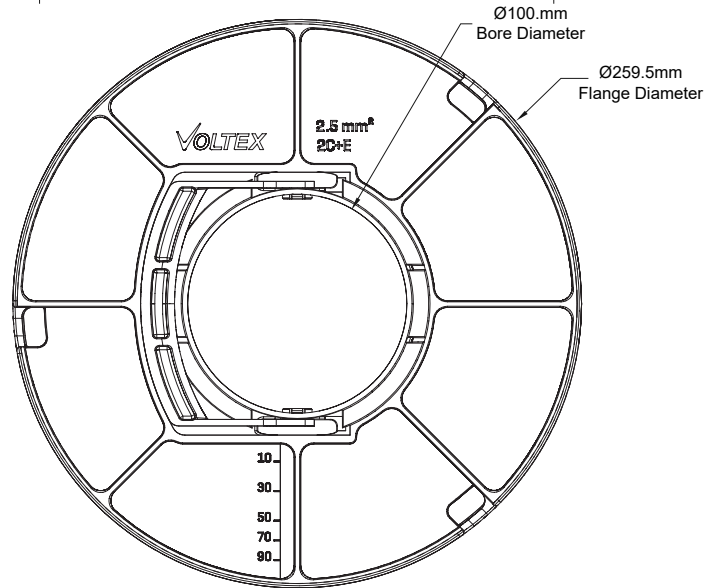
CURRENT CARRYING CAPACITY*	TPS1.5	TPS2.5
Unclosed Space [A]	20	26
Buried Direct [A]	21	30
Underground in Duct [A]	21	30

[*] Temperatures and other installation conditions should be according the AS/NZS 3008.1

Dimensional Drawing:



TPS1.5mm²



TPS2.5mm²

Compliance:

AS/NZS 5000.2
 AS/NZS 1125

