

SMDW - Medium Walled Heatshrink

SMDW is a Medium Walled Cross-Linked Polyolefin Heatshrink Tube which is used primarily for waterproof jointing and sealing cable terminations. The TK version of the tube has a hot melt glue liner which melts as the tube is shrunk and creates a strong bond between the cable jacket and the tube. The joint can then be directly buried or even submerged in water. The tubing can also be supplied unlined for insulation and mechanical protection.

- Cost effective and quick waterproof jointing
- High shrink ratio
- High rigidity and tensile strength once shrunk
- Resistant to decay, chemicals and corrosion
- Approved and used by Australia's major telecommunication and Government Authorities
- Special kits or cut lengths available by request

For waterproof applications the preparation of the cable jacket is critical to ensure good adhesion of the glue. Ensure that the cable jacket is free of grease and is roughened with emery paper.

The tubing should be shrunk with a heat gun or a soft yellow gas flame. Shrinkage should be done from the centre out, moving the heat source continually to ensure no localised overheating. With TK glue lined tubing the glue should extrude from both ends once shrinkage is complete.

Note: A common cause of joint failures is not heating the heatshrink all around the joint. If you are in a trench for example, and heat only the top half of the joint, the heatshrink only shrinks on the top, and the meltable glue sealant does not melt and seal on the rear of the joint. It is essential to heat ALL ROUND the joint in particular the rear, by using a heat deflector.



Catalogue No.	Pre Shrink Diameter (mm)	After Shrink Diameter (mm)	Recovered Wall Thickness (mm)	Standard Length (m)
SMDW12/3TK	12	3	1.8	1.2
SMDW22/6TK	22	6	2.2	1.2
SMDW34/9TK	33	8	2.5	1.2
SMDW40/12TK	40	12	2.5	1.2
SMDW56/17TK	55	16	2.7	1.2
SMDW92/26TK	95	25	3.0	1.2
SMDW120/35TK	115	34	3.3	1.2

Note: Catalogue number shown in this table is glue lined (TK) material. For unlined substitute 'U' on suffix i.e. SMDW22/6U

Orange Medium Walled Heatshrink

An innovation from CABAC - why have a black heatshrink joint in the middle of a run of orange circular cable. Match it up, and make your job look good. SMO has the identical properties to SMDW, including UV resistance.

Catalogue No.	Pre Shrink Diameter (mm)	After Shrink Diameter (mm)	Recovered Wall Thickness (mm)	Standard Length (m)
SMO12/3TK	12	3	1.5	1
SMO40/12TK	40	12	2.5	1



Unlined Heatshrink

Catalogue No.	Pre Shrink Diameter (mm)	After Shrink Diameter (mm)	Recovered Wall Thickness (mm)	Standard Length (m)
SMDW22/6U	22	6	2.2	1.2
SMDW34/9U	33	8	2.5	1.2
SMDW40/12U	40	12	2.5	1.2
SMDW56/17U	55	16	2.7	1.2
SMDW92/26U	95	25	3.0	1.2
SMDW120/35U	115	34	3.3	1.2

Technical Data

Conformant Standards

IEC: VDE: DIN

BS6910-Part 1

Material

Cross-linked polyolefin with thermoplastic mastic sealant

Note: Unlined tube may be ordered (without sealant)

Continuous Operating Temperature

-55°C to +110°C

Shrinkage Temperature

Starts 105°C, completed 135°C

Tensile Strength

> 14 MPa

Elongation at Break Point

450%

Longitudinal Shrinkage

< 10%

Breakdown Voltage

> 18 kV/mm wall thickness

Volume Resistivity

> 10¹⁷ ohm cm

Water Absorption

< 0.1% - polyolefin

< 0.2% - adhesive

Flammability

Do not use SMDW in flame prone areas

UV Resistance

Passed - ISO 1408

Voltage Rating

0.6/1 kV