



Flow Form

Double wall thermoplastic tubing that prevents failures due to corrosion, vibration and strain on electrical and many other connections.



**RoHS
compliant**

Features & Benefits

- Outer wall shrinks - Provides strength, rigidity, abrasion- and chemical resistance
- Inner wall melts - For a splash- and moisture-resistant seal (not intended for full immersion in fluids)
- Rugged protection against abrasion, vibration, and flexing
- Excellent strain relief and insulation of weak points
- RoHS compliant

P/N	Product	S/C	Packaging
86670	Flow Form 3.2 mm	FF3	5 units x 600 mm
86671	Flow Form 4.8 mm	FF5	5 units x 600 mm
86672	Flow Form 6.4 mm	FF6	5 units x 600 mm
86673	Flow Form 9.5 mm	FF10	5 units x 600 mm
86674	Flow Form 12.7 mm	FF13	5 units x 600 mm
86675	Flow Form 19.1 mm	FF19	5 units x 600 mm
86676	Flow Form 25.4 mm	FF25	5 units x 600 mm

Application

Encapsulates components, splices, and terminations where moisture resistance and mechanical protection are required. Inner encapsulant melts and flows to fill surface irregularities of the substrate. While still hot, the tubing can be blocked to form a wire breakout. Provides strain relief on robotic applications. Insulates tool handles from electric shock. Protects chains from corrosion. Apply on cord extremities to prevent them from fraying.

Typical applications include :

- Insulates, bundles and waterproofs a wide range of connections
- Insulates and protects electrical terminals and connectors
- Protects welding cables, equipment, wiring and lights
- Insulates tool handles from electric shock
- Protects chains from corrosion
- Prevents cord extremities from fraying
- Seals and protects flexible hoses

Instructions

1. Always select the largest size that will shrink snugly over the component to be covered.
2. Cut a piece of Flow Form tube. It should be long enough to cover the connection in excess at both sides of the connection.
3. Clean the connection with KENT Electric Cleaner and allow flashing off.
4. Insert one part of the unassembled connection into the Flow Form tube before closing the connection and slide the Flow Form tube over the connection until it's fully covered.
5. Apply heat with KENT Blazer Torch evenly to the Flow Form tube to allow shrinkage, starting from the middle to both extremities.
6. Stop applying heat when the inner encapsulant starts melting out from both extremities of the Flow Form tube and allow to cool down.



Technical Information

Colour:	Black
Base:	Polyolefin tubing
Consistency:	Semirigid
Length:	60 cm
VOC:	0 g/l
Shelf life:	24 months
Custom tariff code:	3917 32 00
Shrink ratio:	3:1
Minimum shrink temperature:	125° C
Dielectric strength:	500 V/mil or 19685 V/mm (ASTM D149)
Volume resistivity:	10 ¹⁵ ohm.cm (ASTM D257)
Heat shock:	No dripping, flowing, or cracking of outer wall (AMS-DTL-23053)
Heat resistance:	No dripping, flowing, or cracking of outer wall (ASM-DTL-23053)
Temperature resistance:	-55° C to 110° C
Chemical resistance:	Excellent (fuel, mineral oils, battery acid, solvents)*
Tensile strength:	10.3 MPa (ASTM D638)
Approvals:	Military AMS-DTL-23053/4, Class 1 UL E85381 600 V, 125° C

Inside diameter	Maximum inside diameter after heating	Wall thickness after heating	Wire section
3.2 mm	0.6 mm	0.96 mm ± 0.15	0.2-0.5 mm ²
4.8 mm	1.5 mm	1.09 mm ± 0.15	0.5-1.5 mm ²
6.4 mm	2.0 mm	1.19 mm ± 0.15	1.5-2.5 mm ²
9.5 mm	3.4 mm	1.27 mm ± 0.18	3.0-6.0 mm ²
12.7 mm	5.0 mm	1.39 mm ± 0.18	8.0-20.0 mm ²
19.1 mm	8.0 mm	1.65 mm ± 0.18	40.0-70.0 mm ²
25.4 mm	10.2 mm	1.90 mm ± 0.18	90.0-120.0 mm ²

* Not intended for permanent immersion in fluids. It is recommended to the user to perform preliminary tests in real conditions in order to determine the duration of the chemical resistance.



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