



Flow Form Clear

Double wall clear 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 adhesive 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
- Clear - Easy visual inspection
- RoHS compliant

P/N	Product	S/C	Packaging
29925	Flow Form Clear 3.2 mm	FFC-3	10 units
29930	Flow Form Clear 4.8 mm	FFC-5	10 units
25290	Flow Form Clear 6.4 mm	FFC-6.5	10 units
25295	Flow Form Clear 9.5 mm	FFC-10	10 units
29935	Flow Form Clear 12.7 mm	FFC-13	10 units
29940	Flow Form Clear 19.1 mm	FFC-20	5 units
29945	Flow Form Clear 25.4 mm	FFC-25	5 units

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
- **Protects labels or printing on cables**

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 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 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

Base:	Polyolefin tubing
Consistency:	Flexible
Length:	30 cm
Shrink ratio:	3:1
Minimum shrink temperature:	120° C
Dielectric strength:	500 V/mil or 19685 V/mm (ASTM D149)
Volume resistivity:	10 ¹⁵ ohm.cm (ASTM D257)
Temperature resistance:	-55° C to 110° C
Chemical resistance:	Very good (fuel, mineral oils, battery acid, solvents)*
Tensile strength:	14.7 MPa (ASTM D638)
VOC:	0 g/l
Shelf life:	24 months
Custom tariff code:	3917 32 51
Approvals:	Military AMS-DTL-23053/4, Class 1

Inside diameter	Maximum inside diameter after heating	Wall thickness after heating	Wire section
3.2 mm	1.2 mm	1.59 mm ± 0.15	0.2-0.5 mm ²
4.8 mm	1.6 mm	1.59 mm ± 0.15	0.5-1.5 mm ²
6.4 mm	2.4 mm	1.59 mm ± 0.15	1.5-2.5 mm ²
9.5 mm	3.2 mm	1.59 mm ± 0.15	3.0-6.0 mm ²
12.7 mm	4.8 mm	1.59 mm ± 0.15	8.0-20.0 mm ²
19.1 mm	6.4 mm	1.59 mm ± 0.15	40.0-70.0 mm ²
25.4 mm	9.5 mm	1.59 mm ± 0.15	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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