

## Q5-3X

### DUAL WALL, ADHESIVE-LINED FLEXIBLE POLYOLEFIN SHRINK RATIO 3:1

#### Features/Applications:

Heat shrinkable dual wall adhesive lined tubing is manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

Operating temperature: - 45°C to +125°C

Minimum shrink temperature 80°C

Full recovery temperature: 125°C

Standard color : Black

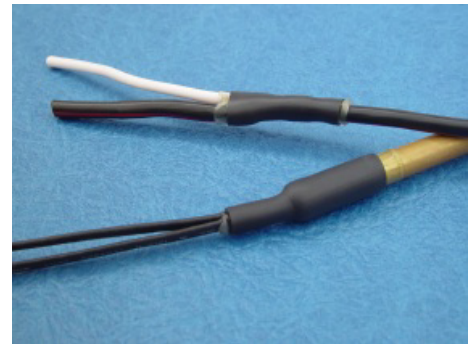
Special colors : Red, blue, white, yellow

Clear(non-flame retardant jacket)

Approvals: UL 224 125°C, 600V, File No. E236137

ABS (American Bureau of Shipping)

RoHS Compliant



#### Technical Data

Property	Test Method	Typical Data
Tensile strength	ASTM D 2671	10.4MPa (min.)
Tensile strength after aging 158°C, 168 hrs.	ASTM D 2671	Remains 70%
Elongation at break	ASTM D 2671	200% (min.)
Elongation at break after aging 158°C, 168 hrs.	ASTM D 2671	100% (min.)
Longitudinal shrinkage	UL 224	0 to -10%
Heat shock	250°C, 4 hrs.	No cracking, no dropping
Cold bend -30°C, 1hr.	ASTM D 2671	No cracking
Voltage withstand AC 2500V, 60 seconds	ASTM D 2671	No breakdown
Volume resistance	ASTM D 876	10 <sup>14</sup> Ω.cm(min.)
Flammability	SAE-AMS-DTL-23053/5	Self extinguish in 30 sec.
Copper corrosion 158°C, 168 hrs.	UL 224	Pass
Water absorption	ASTM D 570	<0.5%

#### Product Dimensions (mm/inch)

Size		As Supplied (mm)	After Recovered (mm)			Standard Length (M)	Spool Length (M)
mm	inch	Min. Inside Diameter	Max. Inside Diameter	Nom. Wall Thickness	Nom. Adhesive Thickness		
Q5-3X 3:1 Adhesive-lined Tubing							
3.0/1.0	1/8	3.0	0.60	1.00±0.10	0.50	1.22	200
4.8/1.5	3/16	4.8	1.50	1.10±0.10	0.50	1.22	100
6.0/2.0	1/4	6.0	2.00	1.20±0.10	0.50	1.22	100
9.0/3.0	3/8	9.0	3.00	1.30±0.10	0.60	1.22	50
12/4.0	1/2	12.0	4.00	1.70±0.15	0.80	1.22	25
19/6.0	3/4	19.0	6.00	2.00±0.20	0.80	1.22	25
24/8.0	1	24.0	8.00	2.20±0.20	1.05	1.22	25
30/10	1 1/4	30.0	10.00	2.40±0.20	1.05	1.22	25
40/13	1 1/2	40.0	13.00	2.50±0.20	1.05	1.22	25
50/19	2	50.0	19.00	2.50±0.20	1.05	1.22	25

Special sizes, special lengths, cut pieces are available upon request.  
Halogen free heat-shrinkable adhesive-lined tubing is available upon request.