QR2, QRA2 RoHS Compliant

MEDIUM WALL, POLYOLEFIN TUBING WITH OR WITHOUT HOT MELTADHESIVE **SHRINK RATIO 3:1**

Features/Applications

QR2 has properties of excellent insulation, environmental sealing and resistance to impact and abrasion. Designed for applications to seal and protect electrical and communication connections, providing excellent mechanical protection to cable joints and terminations. 3:1 shrink ratio allows it to easily fit over irregular shapes and large connectors.

QRA2 is recommended for applications with light cable and wire harnesses that require waterproofing and protection of connector components and encapsulates and seals components within the tubing.

- Operating temperature: -55°C to +110°C
- · Resistant to UV radiation
- Full recovery temperature: 120°C
- · High electrical insulation
- Standard color: Black, red
- Superior mechanical property

RoHS Compliant

Technical Data

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Property	Test Method	Typical Data				
Operating Temperature	IEC 216	-55°C TO +110°C				
Tensile Strength	ASTM D 2671	≥14 MPa				
Tensile Strength After Aging (150°C, 168hrs.)	ASTM D 2671	≥12MPa				
Elongation at Break	ASTM D 2671	≥400%				
Elongation at Break After Aging (150°C, 168hrs.)	ASTM D 2671	≥300%				
Density	ASTM D 792	1.05g/cm ³				
Longitudinal Shrinkage	UL 224	0 to -10%				
Dielectric Strength	IEC 243	≥20kV/mm				
Volume Resistance	IEC 93	\geq 10 ¹⁴ Ω .cm				
Eccentricity	ASTM D 2671	< 30%				
Copper Stability	ASTM D 2671	Pass				
Resistance to Stress Cracking (50°C)	ASTM D 1693	No cracking				
Water Absorption (23°C, 4days)	ISO 62	< 0.15%				

	Thermoplastic Adhesive for QRA2				
	Property	Test Method	Typical Data		
-	Water Absorption	ISO 62	<0.2%		
	Softening Point	ASTM D E28	85°C		
	Peel Strength (PE)	DIN 30672	4N/cm		
	Copper Stability	ASTM D 2671	Non-corrosive		
	Resistance to Fungus and Decay	ISO 846	Pass		

Notes: 1. * See Part Number Guide for standard packaging codes.

2. Special sizes, packaging, colors and cut pieces are available upon request.

	As Supplied (mm)	After Recovered (mm)			Standard Packaging
Size (mm)	Inside Diameter	Inside Diameter	Wall Thickness	Tubing Shape	Cut to Length Pcs. *(QB)
	(min.)	(max.)	(min.)		Qty per bag
0/0	8		1.7	Deviced	48"
8/2		2		Round	20
<u>12/3</u> 16/5	12 16	3	2.0	Round Round	20 20
	10	5	2.2	Round	
<u>19/5</u> 22/6	22	6	2.5	Round	20
28/6	22	6	2.5	Round	20
33/8	33	8	2.5	Round	20
40/12	40	12	2.5	Round	15
55/16	55	12	2.5	Round	15
65/19 75/22	65	19 22	2.8 3.0	Round Round	15 15
85/25	75 85	22	3.0	Round	15
95/25	95	25	3.0	Round	10
115/34	115	34	3.0	Round	10
140/42	115	42	3.0	Round	10
160/50	140	4 <u>2</u> 50	3.0	Round	5
180/58	180	58	3.0	Round	5
205/65	205	65	3.0	Round	5
				Round	5
235/65 265/75	235 265	65 75	3.0 3.0	Round	5
300/85	300	85		Round	5
350/100	350	100	3.0 3.0	Round	5
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QR2, Medium-Wall Tubing Without Hot-Melt Ac					
8/2	8	2	1.7	Flat	20
12/3	12	3	2.0	Flat	20
16/5	16	5	2.2	Flat	20
22/6	22	6	2.2	Round	20
33/8	33	8	2.5	Round	20
40/12	40	12	2.5	Round	20
55/16	55	16	2.7	Round	15
65/19	65	19	2.8	Round	15
75/22	75	22	3.0	Round	15
85/25	85	25	3.0	Round	15
95/25	95	25	3.0	Round	15
115/34	115	34	3.0	Round	10
140/42	140	42	3.0	Flat	10
160/50	160	50	3.0	Flat	10
180/58	180	58	3.0	Flat	5
205/65	205	65	3.0	Flat	5
235/65	235	65	3.0	Flat	5
265/75	265	75	3.0	Flat	5
300/85	300	85	3.0	Flat	5
350/100	350	100	3.0	Flat	5

QRA2, Medium-Wall Tubing With Hot-Melt Adhesive

