HEAT SHRINK MEDIUM / HEAVY WALL TUBING - ADHESIVE LINED Qualtek Electronics

QR3, QRA3 RoHS Compliant

HEAVY WALL POLYOLEFIN TUBING WITH OR WITHOUT HOT MELT ADHESIVE SHRINK RATIO 3:1

Features/Applications

QR3 has properties of excellent insulation, environmental sealing and resistance to impact and abrasion. Designed for applications to seal and protect electrical and communication connections. Provides excellent mechanical protection to cable joints and terminations. 3:1 shrink ratio allows it to easily fit over irregular shapes and large connectors.

QRA3 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
- Full recovery temperature: 120°C
- Resistant to UV radiation · High electrical insulation
- Standard color: Black, red
- **RoHS** Compliant •

Superior mechanical property

200/60

200

60

Technical Data						
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	≥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 QRA3

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.

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

Product Dimensions							
	As Supplied (mm)	After Recov	vered (mm)		Standard Packaging		
Size (mm)	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min.)	Tubing Shape	Cut to Length Pcs. *(QB) Qty per bag 48"		
QRA3, He	avy Wall	Tubing W	ith Hot-N	lelt Adhe	esive		
9/3	9	3	1.8	Round	20		
13/4	13	4	2.4	Round	20		
22/6	22	6	2.7	Round	20		
33/8	33	8	3.2	Round	20		
40/12	40	12	4.1	Round	20		
45/12	45	12	4.1	Round	15		
55/16	55	16	4.1	Round	15		
75/22	75	22	4.1	Round	15		
85/25	85	25	4.3	Round	15		
95/30	95	30	4.3	Round	15		
105/30	105	30	4.3	Round	15		
130/36	130	36	4.3	Flat	10		
160/50	160	50	4.3	Flat	10		
180/50	180	50	4.3	Flat	10		
200/60	200	60	4.3	Flat	10		
QR3, Heavy Wall Tubing Without Hot-Melt Adhesive							
9/3	9	3	1.8	Round	20		
13/4	13	4	2.4	Round	20		
22/6	22	6	2.7	Round	20		
33/8	33	8	3.2	Round	20		
40/12	40	12	4.1	Round	20		
45/12	45	12	4.1	Round	15		
55/16	55	16	4.1	Round	15		
75/22	75	22	4.1	Round	15		
85/25	85	25	4.3	Round	15		
95/30	95	30	4.3	Round	15		
105/30	105	30	4.3	Round	15		
130/36	130	36	4.3	Flat	10		
160/50	160	50	4.3	Flat	10		
180/50	180	50	4.3	Flat	10		
200/60	200	60	4.2	Flat	10		

Flat

4.3

10