



**THE DATASHEET OF  
QRA2-180/58-QC48IN-5**



PART NUMBER EXAMPLE: **Q2-F-3/64-01-QB48IN-25**

PART NUMBER EXAMPLE:

X - X - X - X X - X

- (6) QUANTITY - QB (Q BAG) ONLY
- (5) LENGTH - SEE LIST BELOW
- (4) STANDARD PACKAGING CODES - SEE LIST BELOW
- (3) COLOR - SEE LIST BELOW
- (2) SIZE - SEE TABLE BELOW
- (1) TYPE - SEE SPEC SHEET(Q1, Q2-F, Q-150K, etc...)

NOTE: Table below represents information on individual spec sheet

- ④ **STANDARD PACKAGING CODES:**  
**MS** - MINI SPOOL + LENGTH (FT or M)  
**QB** - Q BAG (Polybag contains quantity specified)  
**QX** - Q BOX + LENGTH (FT or M)  
**RK** - REFILL BAG  
**SS** - STANDARD SPOOL + LENGTH (FT or M)

- ③ **COLOR CODES:**  
**01** BLACK  
**02** CLEAR  
**03** WHITE  
**04** RED  
**05** BLUE  
**06** GREEN  
**07** YELLOW  
**08** YELLOW / GREEN  
**09** BROWN  
**10** ORANGE  
**11** ASSORTED COLORS  
**12** GRAY

- ⑤ **LENGTH:**  
**FT** = FEET  
**M** = METERS  
**IN** = INCH  
**MM** = MILLIMETERS

**HEAT SHRINK THIN WALL TUBING** Qualtek Electronics

**Q2-F** RoHS Compliant

**FLEXIBLE, FLAME RETARDANT POLYOLEFIN TUBING**  
**ENVIRONMENT FRIENDLY, HIGHLY FLAME RETARDANT**  
**SHRINK RATIO 2:1**

**Features/Applications**  
 Provides both commercial and military applications electrical insulation and protects in-line components, disconnect terminals and splices with its high strength and excellent resilience. Bundles wires for very flexible light-duty harnesses; identifies or color-codes wires, cables, terminals and components.

- Operating temperature: -55°C to +135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: 100°C
- Approval: **UL**, File No. E236137, **CS** 242540
- 125°C, VW-1, 600V
- Meets: SAE-AMS-DTL-2205/35 Class 1 & 3, Sony-SS-00259
- Material: No PBB's, PBBO's, PBBE's, Free of Cadmium & Lead
- Standard colors: Black, red, blue, yellow, green, white, clear (class 2)
- RoHS Compliant

Technical Data		
Property	Test Method	Typical Data
RoHS Status	ASTM D2011	RoHS
Exemption of Lead	ASTM D2011	RoHS
Temperature/Aging (100°C/168 hrs.)		50%
Flammability	UL 94V-0, SAE-AMS-DTL-2205/35	Pass
Thermal Shrinkage (100°C)	ASTM D2011	Not Shrink
Cold Shrink (5°C/4 hrs.)	ASTM D2011	Not Shrink
Dielectric Strength	ASTM D149	30KV/mm
Volume Resistance	ASTM D199	>10 <sup>12</sup> Ohm-cm
Surface Resistance	UL 224	Pass
Water Absorption	ASTM D570	0.15%
Chemical Resistance	SAE-AMS-DTL-2205/35	Pass
Longitudinal Tensile	UL 224	>200% Elongation
Economy	UL 224	>30%

Product Dimensions								
Size (Inch)	As Supplied (mm)			After Recovered (mm)			Standard Packaging	
	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min.)	Mini Spool (MS) (Feet)	Standard Spool (SS) (Feet)	Box Length (QX) (Feet)	Cut Length (QB) (Feet)	Qty per bag
3/64	1.2	0.6	0.40	100	1000	50	48	25
1/16	1.6	0.8	0.40	100	1000	50	36	25
3/32	2.4	1.2	0.48	100	500	50	32	25
1/8	3.2	1.6	0.48	100	500	50	28	25
3/16	4.8	2.4	0.48	100	500	30	24	25
1/4	6.4	3.2	0.56	100	500	30	20	25
5/16	8.0	4.0	0.62	100	250	30	18	25
3/8	9.5	4.8	0.62	100	250	30	16	25
1/2	12.7	6.4	0.62	100	200	15	14	5
5/8	15.9	8.0	0.68	50	200	15	14	5
3/4	19.1	9.5	0.68	50	200	15	12	5
1	25.4	12.7	0.87	50	200	15	8	5
1 1/4	31.8	15.9	1.00	50	100	-	8	5
1 1/2	38.1	19.1	1.00	50	100	-	5	5
2	50.8	25.4	1.10	50	100	-	3	5
3	76.2	38.1	1.20	-	100	-	2	2
4	102.0	50.8	1.35	-	100	-	1	2
5	125.0	63.5	1.40	-	50	-	1	2
6	151.0	75.0	1.40	-	50	-	1	2

Notes:  
 1. See page 8, Part Number Guide for dimensional packaging codes.  
 2. Cross Reference Guide located on page 10.  
 3. Special color packaging, colors and cut pieces are available upon request.

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SAMPLE TABLE: Q2-F

② **Product Dimensions**

Size (Inch)	As Supplied (mm)			After Recovered (mm)			Standard Packaging	
	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min.)	Mini Spool *(MS) (Feet)	Standard Spool *(SS) (Feet)	Box Length *(QX) (Feet)	Cut to Length Pcs. *(QB) Qty per bag	
3/64	1.2	0.6	0.40	100	1000	50	6"	48"
1/16	1.6	0.8	0.40	100	1000	50	40	25
3/32	2.4	1.2	0.48	100	500	50	36	25
1/8	3.2	1.6	0.48	100	500	50	32	25
3/16	4.8	2.4	0.48	100	500	30	28	25
1/4	6.4	3.2	0.56	100	500	30	24	25
5/16	8.0	4.0	0.62	100	250	30	20	25
3/8	9.5	4.8	0.62	100	250	30	18	25
1/2	12.7	6.4	0.62	100	200	15	16	25
5/8	15.9	8.0	0.68	50	200	15	14	5
3/4	19.1	9.5	0.68	50	200	15	12	5
1	25.4	12.7	0.87	50	200	15	8	5
1 1/4	31.8	15.9	1.00	50	100	-	8	5
1 1/2	38.1	19.1	1.00	50	100	-	5	5
2	50.8	25.4	1.10	50	100	-	3	5
3	76.2	38.1	1.20	-	100	-	2	2
4	102.0	50.8	1.35	-	100	-	1	2
5	125.0	63.5	1.40	-	50	-	1	2
6	151.0	75.0	1.40	-	50	-	1	2



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