

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 | Compliant |
| Exemption of Lead | ASTM D2011 | RoHS |
| Temperature/Aging (100°C/168 hrs.) | | 50% |
| Flammability | UL 94V-0, SAE-AMS-DTL-2205/35 | Pass |
| Thermal Shrink (100°C) | ASTM D2011 | 2:1 (max) |
| Color Retention (100°C) | ASTM D2011 | Non-critical |
| Dielectric Strength | ASTM D149 | 30 kV/mm |
| Volume Resistance | ASTM D199 | > 10 ¹² Ohm-cm |
| Surface Resistance | ASTM D199 | > 10 ¹¹ Ohm-cm |
| Impact Resistance | UL 224 | Pass |
| Water Absorption | ASTM D570 | 0.15% |
| Chemical Resistance | SAE-AMS-DTL-2205/35 | Pass |
| Long-term Durability | UL 224 | > 50% |
| Economy | UL 224 | > 50% |

| 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 Pcs. Qty per bag |
| 3/64 | 1.2 | 0.6 | 0.40 | 100 | 1000 | 50 | 48 |
| 1/16 | 1.6 | 0.8 | 0.40 | 100 | 1000 | 50 | 36 |
| 3/32 | 2.4 | 1.2 | 0.48 | 100 | 500 | 50 | 32 |
| 1/8 | 3.2 | 1.6 | 0.48 | 100 | 500 | 50 | 28 |
| 3/16 | 4.8 | 2.4 | 0.48 | 100 | 500 | 30 | 25 |
| 1/4 | 6.4 | 3.2 | 0.56 | 100 | 500 | 30 | 25 |
| 5/16 | 8.0 | 4.0 | 0.62 | 100 | 250 | 30 | 18 |
| 3/8 | 9.5 | 4.8 | 0.62 | 100 | 250 | 30 | 18 |
| 1/2 | 12.7 | 6.4 | 0.62 | 100 | 200 | 15 | 14 |
| 5/8 | 15.9 | 8.0 | 0.68 | 50 | 200 | 15 | 14 |
| 3/4 | 19.1 | 9.5 | 0.68 | 50 | 200 | 15 | 12 |
| 1 | 25.4 | 12.7 | 0.87 | 50 | 200 | 15 | 8 |
| 1 1/4 | 31.8 | 15.9 | 1.00 | 50 | 100 | - | 8 |
| 1 1/2 | 38.1 | 19.1 | 1.00 | 50 | 100 | - | 5 |
| 2 | 50.8 | 25.4 | 1.10 | 50 | 100 | - | 3 |
| 3 | 76.2 | 38.1 | 1.20 | - | 100 | - | 2 |
| 4 | 102.0 | 50.8 | 1.35 | - | 100 | - | 1 |
| 5 | 125.0 | 63.5 | 1.40 | - | 50 | - | 1 |
| 6 | 151.0 | 75.0 | 1.40 | - | 50 | - | 1 |

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" | 25 |
| 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 |

⑥

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