

A wireframe illustration of a car is centered in the background. A line points from the text 'SENSOR: NO ACTIVE' to a specific location on the car's roof.

Qualtek

Automotive Heat Shrink Tubing



www.Qualtekusa.com

Company Profile

- ✓ Established 1980
- ✓ Offices in USA, Hong Kong, Mexico, and Taiwan
- ✓ Worldwide network of 150 technical sales reps
- ✓ ISO-9001:2015 certified
- ✓ High quality standards
- ✓ Superior customer service
- ✓ RoHS compliant for all products



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QBK Series

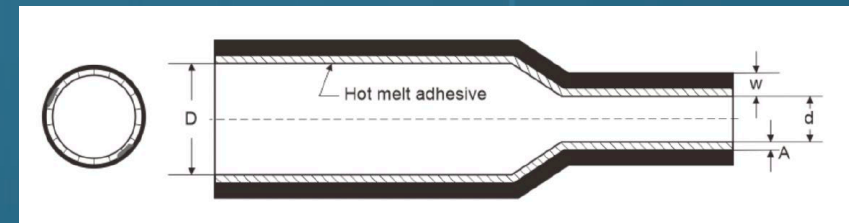
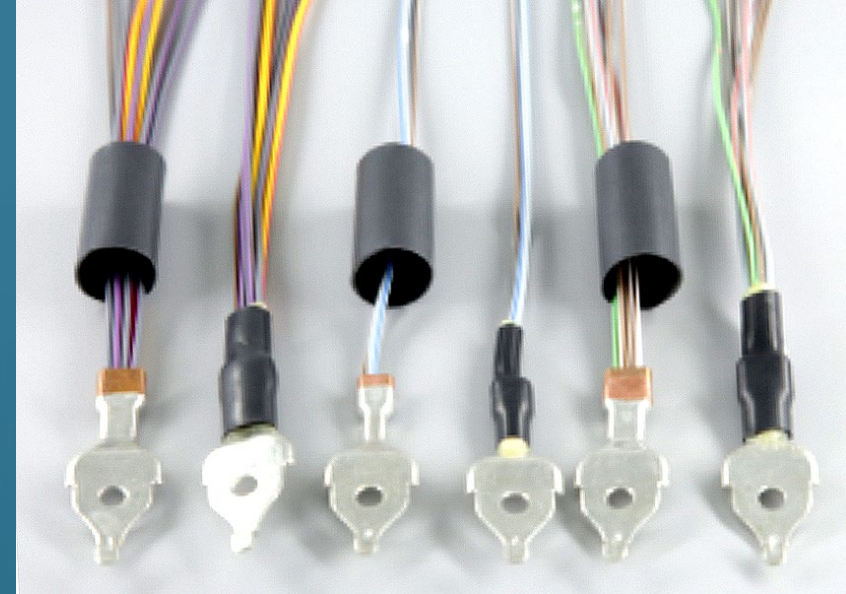
✓ Applications:

- Sealing of in-line splices
- Sealing and strain relief of connectors and terminals
- Adhesive bonds readily to PVC, XLPE, and EPDM Cable Jackets

✓ Crosses to TE RBK-ILS

✓ Specifications:

- -40°C to +125°C
- 4:1 Shrink Ratio
- FMVSS 302 Flame Retardant
- Black and Clear Colors





QD-2000 Series

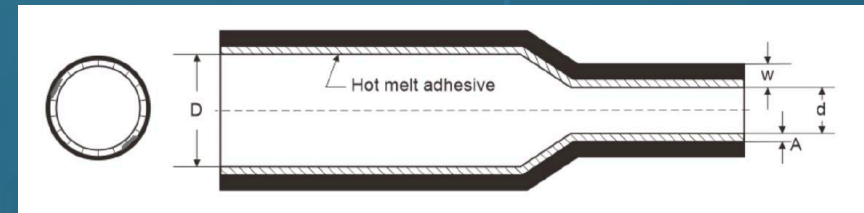
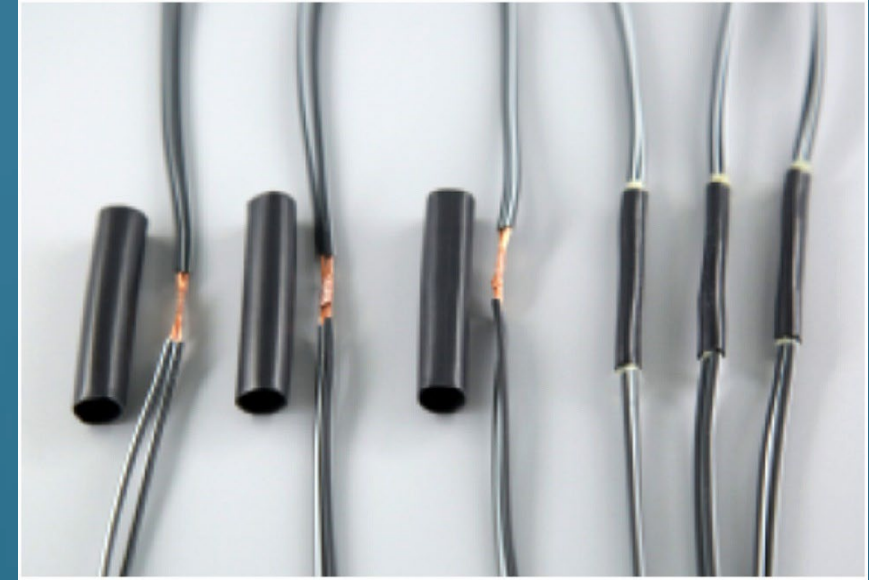
✓ Applications:

- Sealing of in-line splices
- Protects splices in the most demanding applications such as off-road heavy equipment
- Excellent protection against water, moisture, and chemicals

✓ Crosses to TE ES2000

✓ Specifications:

- -40°C to +130°C
- 4:1 Shrink Ratio
- Flame Retardant and UV Resistant
- Black and Clear Colors





QFR-135 Series

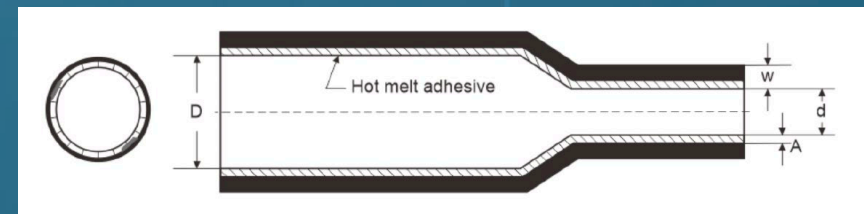
✓ Applications:

- Used in engine compartments where full flame retardancy is preferred.
- Mechanically tough, provides strain relief and abrasion resistance of wire splices.
- Offers permanent sealing of splices, fusible links, terminals, and in-line components.

✓ Crosses to TE FL2500

✓ Specifications:

- -40°C to +135°C
- 4:1 Shrink Ratio
- Fully Flame Retardant (Jacket & Adhesive)
- Black with white adhesive





QEC-150 Series

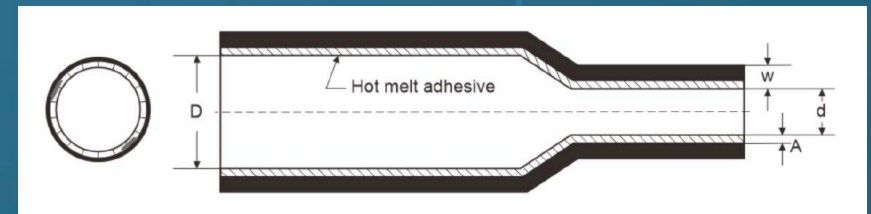
✓ Applications:

- Designed for high temperature automotive under hood harnesses
- Abrasion protection and electrical insulation at high temperature ranges
- Provides an effective barrier against fluids and moisture

✓ Crosses to TESCT

✓ Specifications:

- -40°C to +150°C
- 4:1 Shrink Ratio
- Flame Retardant
- Black color





QNBK Series

✓ Applications:

- Protection of in-line splices in an automotive environment
- Provides low profile mechanical protection against flexing, abrasion, cut-through and electrical insulation
- Also commonly used on wire harness joints and grounding ring terminals

✓ Crosses to TE QSZH-125

✓ Specifications:

- -40°C to +125°C
- 4:1 Shrink Ratio
- Quick Installation
- Clear with black adhesive (allows for quick inspection after installation)





QSFU-5000 Series

✓ Applications:

- Mechanical abrasion protection for rubber hoses, plastic pipes, and wiring harness bundles.
- Noise and rattle suppression
- Extremely flexible, resistant to trapping water, heat, and humidity

✓ Crosses to TE QSZH-125

✓ Specifications:

- -40°C to +125°C
- 2:1 Shrink Ratio
- Manufactured using polyester fiber and crosslinked polyolefin material
- Black Color



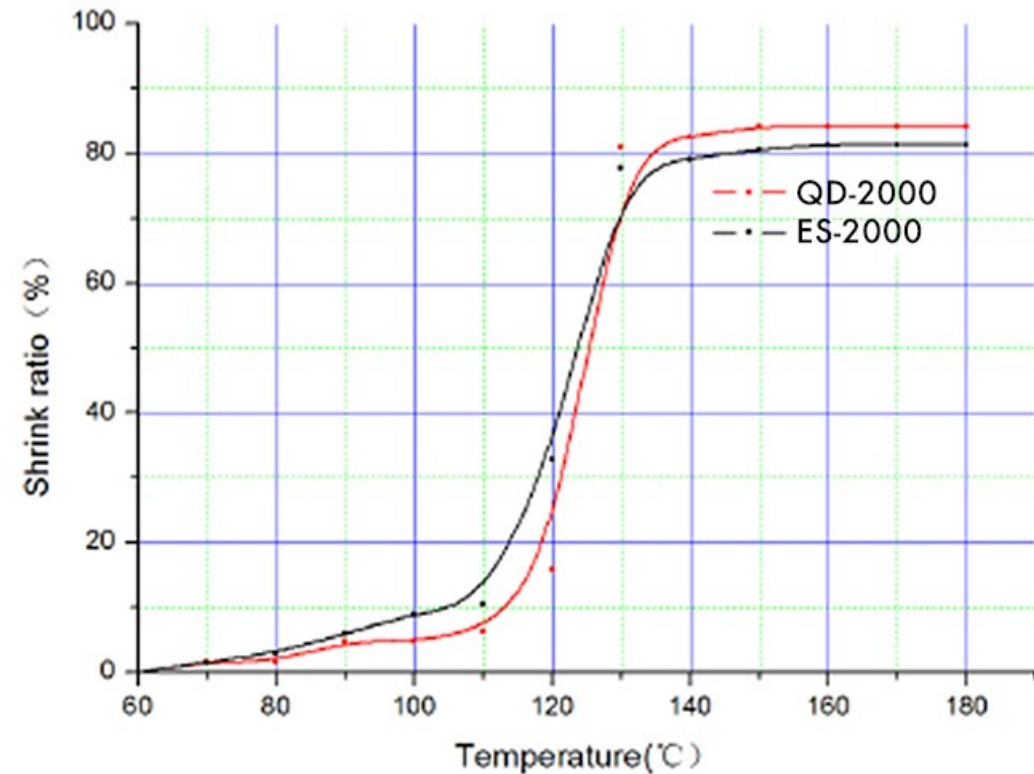
Cross Reference Guides

Qualtek	TE/Raychem
QBK	RBK-ILS
QD-2000	ES-2000
QFR-135	FL 2500
QEC-150	SCT
QNBK	QSZH-125
QSFU-5000	HFT5000
Qualtek	Canusa
QBK	CBK/CDR
QD-2000	Splicemelt
Qualtek	Sumitomo
QD-2000	SA2

QD-2000 vs TE ES-2000

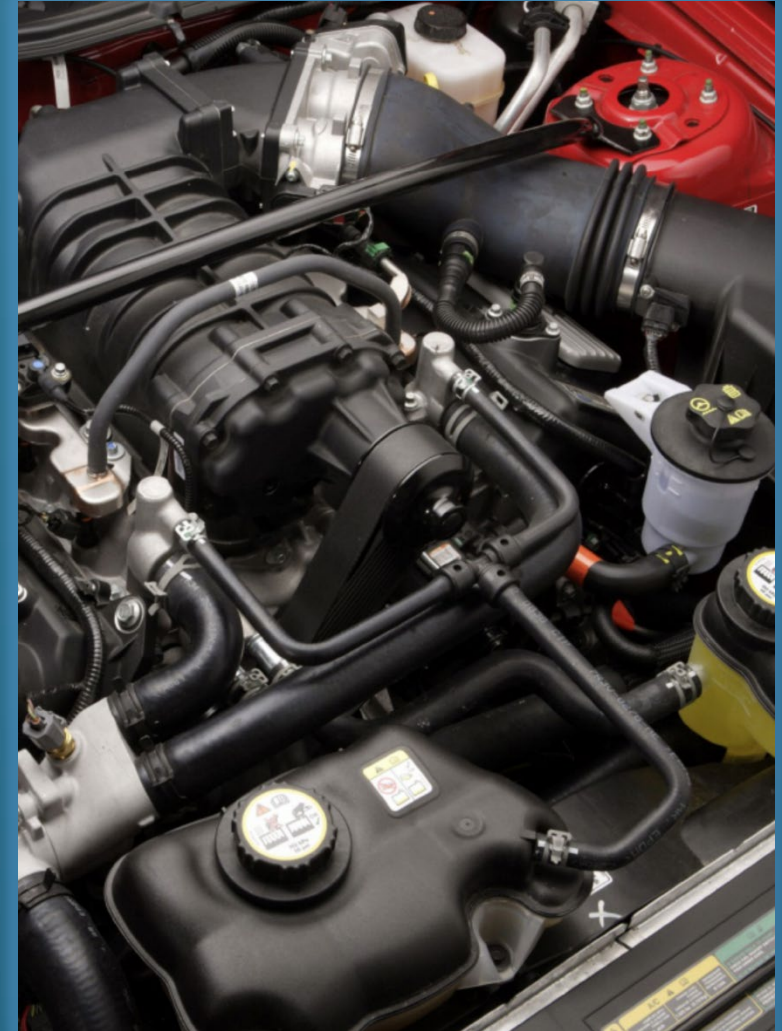
Property	Unit	Requirements	Test result	
			TE ES2000-3	Qualtek QD-2000-3
Seal	-	No air bubbles Air pressure: 0.05Mpa after 1 minute at 23±3 °C	No air bubbles	No air bubbles
Fluid Resistance Current Leakage (5%NaCl, 23±3 °C)	μA	IRM903 (100±3 °C, 1h)	4.39nA	2.41nA
		Power steering fluid (100±3 °C, 1h)	3.61nA	2.02nA
		Automatic Transmission Fluid (100±3 °C, 1h)	2.02nA	1.84nA
		Engine Coolant (100±3 °C, 1h)	5.09nA	6.61nA
		NO.2 Diesel Fuel (23±3 °C, 24hrs)	5.41nA	2.84nA
		Windshield Washer Fluid (23±3 °C, 24hrs)	11.2 nA	12.78nA
		ASTM Fuel C (23±3 °C, 24hrs)	7.23nA	56.44nA
		GUNK*Engine Cleaner(10s)+30min+Brake Fluid(10s) one cycle 16hrs	13.2nA	5.03nA
		≤0.25μA		
Thermal Shock Current Leakage	μA	≤0.25μA	5.56nA	0.49nA
Flex Test Current Leakage	μA	≤0.25μA	3.45nA	13.32nA
Dynamic Cut-Through	kg	13.6 minimum	41.11	45.6
Low Temperature Flexibility Dielectric Withstand 1minute at 1000V	-	No breakdown	Pass	Pass
Heat Aging Current Leakage	μA	≤0.25μA	1.21nA	0.24nA

QD-2000 shrink property compared to ES-2000



Competitive Advantages

- ✓ **100% Formulation of compounds in house**
 - Reduces Costs
 - Ensures Consistency and Quality
 - Allows Qualtek to meet all Environmental requirements
- ✓ **Radiation Crosslinking**
 - Radiation completed inhouse
 - Most Competitors Outsource which increases costs
- ✓ **High Precision Extrusion Machines**
 - Ensures Top Quality
 - Requires less material waste
- ✓ **TS16949 Certified Production Facility**
- ✓ **Warehouses Located in USA and Hong Kong**
 - Shorter lead times
 - Support for Blanket Orders
 - Scheduled product releases
- ✓ **Level 3 PPAP and IMDS Reports Available**





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