

QDR, QDR(TW)



DIESEL RESISTANT ELASTOMERIC HEAT SHRINKABLE TUBING
SHRINK RATIO 2:1

Features/Applications

QDR is made from modified radiation cross-linked elastomers and has superior diesel, chemical and abrasion resistant properties. The special formulation makes the tubing high temperature fluid resistant and long term heat resistant. It can provide effective protection to cable terminations, splices and joints in military vehicles.



- Operating temperature: -75°C to +150°C
- Full recovery temperature: 175°C
- Meets: SAE-AMS-DTL-23053/16
- Standard Color: Black, white
- RoHS Compliant

Technical Data

Property	Test Method	Typical Data
Operating Temperature	IEC 216	-75°C to +150°C
Tensile Strength	ASTM D 2671	≥ 13 MPa
Elongation at Break	ASTM D 2671	≥ 500%
Elongation at Break After Aging	160°C, 168 hrs.	≥ 220%
Heat Shock	215°C, 4 hrs.	No cracking or dropping
Flexibility (2% Secant)	ASTM D 882	≤ 50 MPa
Flammability	ASTM D 2671	Self-extinguish in 15 sec.
Volume Resistance	ASTM D 876	≥ 10 ⁹ Ω.cm
Fluid Resistance Tensile Strength	ISO37 24hrs. (diesel 70°C, hydraulic 70°C, lubricant 100°C)	≥ 10 MPa
Fluid Resistance Elongation		≥ 300%

Product Dimensions (Inch / mm)

Size		As Supplied (mm)	After Recovered (mm)		Tubing Shape	Standard Spool *(SS) (Meter)
Inch	mm	Inside Diameter (min.)	Wall Thickness (max.)	Wall Thickness (nom.)		
QDR Diesel Resistant-Elastomeric Tubing						
1/8	3.2	3.2	1.6	0.76	Round	50
3/16	4.8	4.8	2.4	0.85	Round	50
1/4	6.4	6.4	3.2	0.90	Round	50
3/8	9.5	9.5	4.8	1.02	Round	50
1/2	12.7	12.7	6.4	1.22	Round	30
3/4	19.1	19.1	9.5	1.45	Flat	30
1	25.4	25.4	12.7	1.80	Flat	30
1 1/2	38.1	38.1	19.1	2.40	Flat	15
2	50.8	50.8	25.4	2.80	Flat	15

QDR (TW) Thin Wall Diesel Resistant-Elastomeric Tubing

3/32	2.4	2.4	1.2	0.51	Round	150
1/8	3.2	3.2	1.6	0.51	Round	150
3/16	4.8	4.8	2.4	0.51	Round	75
1/4	6.4	6.4	3.2	0.64	Round	75
3/8	9.5	9.5	4.8	0.64	Round	50
1/2	12.7	12.7	6.4	0.64	Round	30
3/4	19.1	19.1	9.5	0.76	Flat	30
1	25.4	25.4	12.7	0.90	Flat	30
1 1/4	31.8	31.8	15.9	1.10	Flat	30
1 1/2	38.1	38.1	19.1	1.20	Flat	30

Notes:

1. * See Part Number Guide for standard packaging codes.
2. Special sizes, packaging, colors and cut pieces are available upon request.