

Fax-on-Demand: (800) 260-9099
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Before ordering check with factory for most current data.

FDR 25

Flexible, diesel-resistant wire and cable jacket material

Applications

FDR 25 cable jacket was originally developed for the Leopard II main battle tank to provide an exceptional range of properties. Used in compartments exposed to hot diesel fuels and vibration, FDR 25 resists a wide range of aggressive fluids and offers excellent low-temperature flexibility. These properties have also led to widespread use of FDR 25 on other military vehicles and in many applications such as test and communications equipment. FDR 25 is fully compatible with Raychem's high-performance harnessing system—System 25 (for more details, contact Raychem).

Features/Benefits

- Operating temperature range of -40°C to 150°C .
- Highly flame-retardant.
- Compatible with Raychem System 25 tubing, molded parts, and adhesives.
- Qualified to VG and MTV standards.



Product Characteristics*

Mechanical	Tensile strength	14 MPa (min.)/2000 psi (min.)	
	Elongation	300% (min.)	
	Abrasion resistance	40 scrapes min. (1.6-kg 3.5-lb load WCD 2002)	
	Cold bend $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$	No cracking	
Thermal aging	Endurance IEC 216	2500 h at 150°C	
	Heat age	120 h at 175°C	
	Heat shock (4 h at $225^{\circ}\text{C} \pm 3^{\circ}\text{C}$)	No cracks, drips, or flowing, 6 mm (0.24 in) total shrinkage in 300 mm (11.8 in)	
Fluid resistance (full specification, 17 fluids)	24 h immersion	Minimum tensile strength (MPa)	Minimum elongation (%)
	Diesel fuels 70°C	8	150
	Hydraulic fluids 50°C	8	150
	Lubricating oils 100°C	8	150
	Cleaning fluids 25°C	8	150
	De-icing fluids 20°C	8	150
Electrical	Insulation resistance	2 megohms km (min.)	
Other	45°C flammability	30 s (max.) afterburn 100 mm (4 in) (max.) burn length	
	Vertical flammability	Self-extinguishing	
	Acid gas	4% HCl equivalent (max.)	

*Jacket properties per Raychem specification WCD 3304 and WCD 2002.

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Users should independently evaluate the suitability of the product for their application.