

Dual Wall Hydraulic Tubing

ADW-HT



Description

ADW-HT is designed to protect automotive hydraulic pipes. The crosslinked polyolefin tubing combines excellent mechanical, abrasion and oil resistance. ADW-HT is RoHS compliant.

Features

- Shrink Ratio 1.5 : 1
- Operating temperature - 35 to 125°C
- High oil and fuel resistance
- Good abrasion/dampening properties
- Colours - Black
- Minimum Shrink Temperature 120°C

Applications

- Covering of hydraulic and pneumatic metal tubes
- Protects corrosion coating on metallic tubes against chipping and abrasion
- Vibration dampening where pipes are clipped onto automobile body

Technical Data

Properties	Test Methods	Typical Values
Tensile (MPa)	UL 224	> 15
Elongation (%)	UL 224	> 300
Heat Ageing: Tensile : Elongation	UL 224 (158 C x 168 hrs)	> 12 MPa > 250 %
Heat Shock(25°Cx4hrs)	UL 224	Pass
Low temperature flex.	ASTM D 746 (1 hrs @ - 35°C)	No cracking
Impact Resistance	ASTM D 746	No cracking @ - 35°C
Fluid Resistance *	ASTM D 2671 (250°C x 72 hrs)	Tensile > 7.8 MPa Elongation > 150 %
Stress crack resistance	ASTM D 1693 (50°C x 24 hrs)	No cracking

*Fluid Resistance: Tests conducted using brake fluid and unleaded petrol



Dimensions

Product	Pipe Φ mm	Inside Diameter (mm)		Wall Thickness (mm) Recovered (min)
		Supplied	Recovered	
ADW-HT 5	3.50	5	3.0	1.0
ADW-HT 7	4.76	7	4.0	1.0
ADW-HT 10	8.00	10	7.0	1.0
ADW-HT 12	10.00	12	9.0	1.0

Eccentricity < or equal to 20% as per UL 224
Tolerances of ±0.15 on wall thickness



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Heavy Wall Strain Relief Sleeves



AHW-SR

Description

AHW-SR is a non flame retardant heavy wall shrink sleeving designed for strain relief of heavy connectors, where flexing of cable at the cable/connector interface can lead to damage of the conductor and ultimately failure.

AHW-SR addresses this problem by dissipating the bending force over a larger radius and away from the connector/cable interface.

Features

- Shrink Ratio 2 : 1 and 3 : 1
- Operating temperature - 35 to 125°C
- High chemical resistance
- Excellent mechanical and abrasion resistance
- Colours – Black and neutral
- Minimum shrink temperature 120°C

Applications

- Mechanical strain relief at cable/connector interface

Technical Data

Properties	Test Methods	Typical Values
Tensile (MPa)	UL 224	> 15
Elongation (%)	UL 224	> 400
Heat Ageing: Tensile : Elongation	UL 224 (158° C x 168 hrs)	> 14 MPa > 300 %
Heat Shock (250°C x 4hrs)	UL 224	Pass
Low temperature Flexibility	ASTM D 2671(4 hrs @ -35°C)	No cracking
Fluid Resistance *	ASTM D 2671 (25°C x 72 hrs)	Tensile > 10 MPa Elongation > 150 %
Dielectric Strength	ASTM D 2671	> 20 KV/mm
Volume Resistivity	ASTM D 257	10 ¹⁴ ohm.cm

*Fluid Resistance: Tests conducted using brake fluid and unleaded petrol

Dimensions

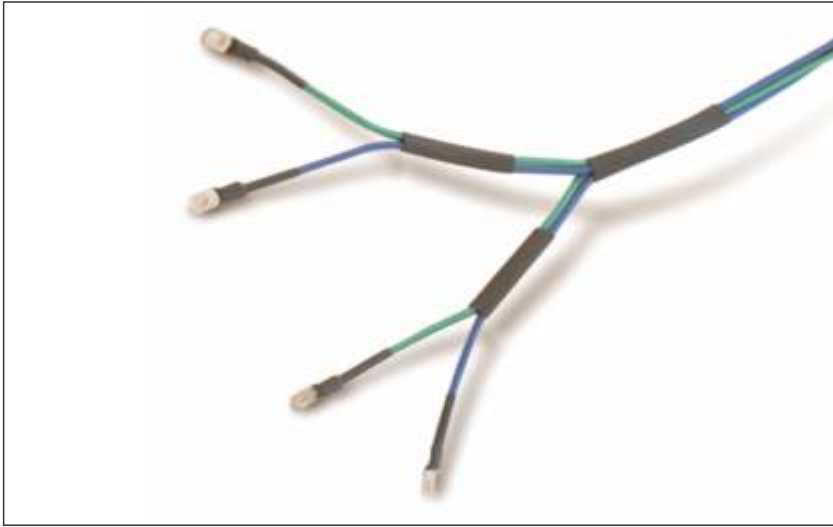
Product	Inside Diameter (mm)		Wall Thickness (mm)	
	Supplied	Recovered	Supplied	Recovered
AHW-SR 11/4	11	4	1	3
AHW-SR 18/6	18	6	1	3
AHW-SR 24/8	24	8	1.2	3
AHW-SR 30/10	30	10	1.2	3
AHW-SR 36/12	36	12	1.2	3

Eccentricity < 30% as per UL 224
Tolerances on size id's and wall thickness allow 15% on above values



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Diesel Resistant Elastomeric Tubing



Technical Data

Properties	Test Method	Typical Values
Tensile	ASTM D 2671	≥ 13 Mpa
Elongation	ASTM D 2671	≥ 250 %
Heat Ageing: Elongation	ASTM D 2671 (150°C, 168 Hrs)	≥ 200 %
Heat Shock	200°C, 4 Hrs	No Cracking
Flexibility (2% secant)	ASTM D882	≤ 50 Mpa
Fluid resistance: Tensile strength	ISO 37, 24Hrs (diesel at 70°C)	≥ 10 Mpa
: Elongation	Hydraulic at 70°C, lubricant at 100°C	≥ 200 %
Flammability	ASTM D 2671	Self-extinguish in 15 sec
Volume Resistivity	ASTM D 876	>10 ⁹ Ω.cm



ADR

Description

ADR has superior diesel, chemical and abrasion resistant properties. Its formulation also makes it suitable for use in areas where it requires extended exposure to high temperatures and fluids.

Features

- Shrink Ratio 2:1
- Crosslinked modified elastomer
- Operating Temperature -65 to 150 °C
- Superior abrasion resistance
- Flame retardant
- Highly Flexible
- Excellent temperature and fluid resistance
- Colours - Black
- Minimum fully recovered shrink Temperature, 175°C
- Meets: SAE-AMS-DTL-23053/16
- RoHS compliant
- UV Resistant

Applications

- Automotive wiring harnesses
- Applications that requires superior abrasion and temperature resistance combined with flame retardancy as required in military vehicles.

Dimensions

Product	Inside Diameter (mm)		Wall Thickness (mm)	Standard Length
	Supplied	Recovered	Recovered	M/Reël
ADR2.4	2.4	1.2	0.51	150
ADR3.2	3.2	1.6	0.76	50
ADR4.8	4.8	2.4	0.85	50
ADR6.4	6.4	3.2	0.90	50
ADR9.5	9.5	4.8	1.02	50
ADR12.7	12.7	6.4	1.22	30
ADR19.1	19.1	9.5	1.45	30
ADR25.4	25.4	12.7	1.80	30
ADR38.1	38.1	19.1	2.40	15
ADR50.8	50.8	25.4	2.40	15



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