

Polyolefin Heat-Shrink Tubing

## FITCOTUBE® FT555 – Special Sizes

Halogen free, high performance, flexible, cross-linked polyolefin heat shrink tubing. Reliable insulation, mechanical protection primarily used in the automotive industry and commercial industrial applications. Prevents outgassing (“fogging effect”) in lightning applications.

**Operating temperature:** - 70°C to +135°C  
short time up to +200°C

**Shrink temperature:** + 90° C

**Shrink ratio:** 2: 1

**Standard colors:** Black  
Special colors on request

**Test method:** According to VW 50180 and VW 50181 gravimetric fogging behavior



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT555-120	1,20	0,60	0,31
FT555-160	1,60	0,80	0,33
FT555-240	2,40	1,20	0,36
FT555-320	3,20	1,60	0,39
FT555-480	4,80	2,40	0,42
FT555-640	6,40	3,20	0,45
FT555-950	9,50	4,80	0,48
FT555-1270	12,70	6,40	0,52
FT555-1900	19,00	9,50	0,58
FT555-2540	25,40	12,70	0,67
FT555-3800	38,00	19,00	0,76
FT555-5100	51,00	25,40	0,85
FT555-7600	76,00	38,00	0,95
FT555-10200	102,00	51,00	1,05
Special Sizes			
FT555-480-W5	4,80	2,40	0,51
FT555-2100-W8	21,00	7,80	0,80
FT555-2700	27,00	12,70	0,67
FT555-3300-W11	33,00	9,00	1,10

**Packaging:** On spools, cut lengths or printed tubing on request.  
Special sizes on request.

**Processing note:** Care for clean and accurate cutting edge. Start shrinkage on the end.  
Pre-heat metal body.

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## FITCOTUBE® FT555 – Special Sizes

Attributes	Testing	Requirements	Value
<b>Mechanical</b>			
Tensile strength	ASTM D 638	min 10,4 MPa	13 MPa
Ultimate elongation	ASTM D 638	Min. 200%	≥ 400 %
Longitudinal change	SAE-AMS-DTL-23053	-5% ± 10%	- 5 %
Specific Gravity	ASTM D 792	-5% ± 10%	1,1
Secant Modulus	ASTDM D 882	Max. 173 MPa	≤ 100 MPa
<b>Thermal</b>			
Heat Shock (225°C x 4h)	UL 224	No cracking, flowing or dripping	Pass
Cold bend (-70°C x 4h)	UL 224	No cracking	Pass
Elongation after heat ageing (136°C x 168h)	SAE-AMS-DTL-23053	Min. 100%	≥ 170%
Tensile Strength after heat ageing (136°C x 168h)	SAE-AMS-DTL-23053	Min. 7,3 MPa	Pass
Flammability	FMVSS 302	Pass	Pass
<b>Electrical</b>			
Dielectric strength	ASTM D 876	Min. 19,7 kV/mm	> 23KV/mm
Dielectric Voltage Withstand (2,5kV x 60s)	UL 224	No breakdown	Pass
Volume Resistivity	ASTM D 257	Min. 10 <sup>14</sup> Ω*cm	10 <sup>14</sup> Ω/cm
<b>Chemical</b>			
Copper Corrosion (175°C x 16h)	UL 224	No corrosion	Pass
Fluid Resistance (23°C x 24h) *	SAE-AMS-DTL-23053	Min. 10,4 MPa (Tensile Strength) Min. 200% (Elongation)	Pass
Fogging behavior gravimetric	VW 50180, VW 50181	-	Pass

\* Tested fluids: Gasoline, Simulated Windshield cleaner, Brake Fluid, Anti-freezing fluid, Battery fluid, Engine oil, Torque conversion oil