



# Technical Data

## Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D412, ISO 37	2100 psi (14.5MPa)
Elongation	ASTM D412, ISO 37	600%
Longitudinal Change	ASTM D2671	+1%, -10%
Specific Gravity	ASTM D792	1.1
Elongation after Heat Aging (168 hrs at 150°C)	ASTM D2671	500%
Heat Shock (4hrs at 225°C)	ASTM D2671	No cracking or flowing
Low Temperature Flexibility (4hrs at -55°C)	ASTM D2671	No cracking
Hardness (Shore D)	ASTM D2240	50D

## Electrical

Dielectric Strength	ASTM-D149	500 V/Mil (20kV/mm)
Dielectric Voltage Withstand (2500 V, 60 Hz, 1 min.)	UL 486D	No Breakdown, 24kV-1 min, 15kV-4hrs
Volume Resistivity	ASTM D257	10 <sup>16</sup> ohm-cm

## Chemical

Fluid Resistance	MIL-DTL-23053	Good to Excellent
Copper Corrosion	ASTM D2671	No Corrosion
Water Absorption	ASTM D570	0.1%
Fungus Resistance	ASTM G21	No Growth

## Adhesive

Adhesive softening point	ASTM E28	92°C +/- 5°C
Adhesive peel strength (300mm/min at 23°C)	ASTM D1000	
- to steel, alum, P.E.		35 pli
- to PVC		20 pli
Adhesive Lap Shear (1in./min at 23°C)	ASTM D1002	125 psi (0.875 MPa)
Adhesive Blocking (30°C)	ASTM-D1146	No blocking
Water Penetration	STM 706	No penetration after 236 hrs. (min) of continuous immersion.

# Dimensions

	EXPANDED		RECOVERED				APPLICATION RANGE FOR GENERAL USE		600/1000V SINGLE CONDUCTOR SIZE	STANDARD LENGTHS	
	INTERNAL DIAMETER (MIN)		INTERNAL DIAMETER (MAX)		WALL THICKNESS (NOM)						
	mm	D IN	mm	d IN	mm	w IN	mm	IN	AWG/MCM	AA IN	BB IN
<b>68162</b>	8.9	0.35	3.0	0.12	1.8	0.07	3.5-8	1.5-3	#14 - #10	1.2	6, 48
<b>68164</b>	13.0	0.51	4.1	0.16	2.4	0.09	4.5-11	2-.45	#8 - #6	1.2	6, 48
<b>68166</b>	19.1	0.75	6.1	0.24	2.4	0.09	6.5-16.5	.25-.65	#6 - #2	1.2	6, 9, 12, 48
<b>68168</b>	27.9	1.10	8.9	0.35	3.0	0.12	10-24	4-.95	#1 - 3/0	1.2	6, 9, 12, 48
<b>68170</b>	38.1	1.50	11.9	0.47	4.1	0.16	13-35	5-1.4	2/0 - 350	1.2	9, 12, 48
<b>68172</b>	50.8	2.00	16.0	0.63	4.1	0.16	17.5-44	7-1.75	250 - 500	1.2	9, 12, 48
<b>68174</b>	68.1	2.70	22.1	0.87	4.1	0.16	24-59	.95-2.3	600 - 1000	1.2	12, 24, 48
<b>68176</b>	89.9	3.54	30.0	1.18	4.1	0.16	33-80	1.3-3.1	800 - 1250	1.2	12, 24, 48
<b>68178</b>	119.9	4.72	39.9	1.57	4.3	0.17	44-104	1.75-4.1	1500-2500	1.2	12, 24, 48

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Standards: UL486D, CSA C22.2 No 198.2, ANSI C119.1, Western Underground Guide Nos. 2.4, 2.5.