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# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1 Overlook Point, Suite 265  
Lincolnshire, IL 60069  
USA



## SIGNAL-WAVE™ - 240 SERIES Extra Flexible Communications Cable

Part Number	Designation	Jacket	1000' Stock Part Code
989240	Indoor/Outdoor Extra Flex	TPE	989240-06-08

### Construction Specifications:

	Material	Diameter
Inner conductor	7/.0188" Bare Copper	0.056" Nom.
Dielectric	Foamed Polyethylene	0.150" Nom.
	Bonded Aluminum Foil + Tinned	
Outer Conductor	Copper Braid	0.178" Nom.
Jacket	Thermoplastic Elastomer	0.240" Nom.

### Electrical Properties:

Capacitance	24.2 pF/ft
Impedance	50 Ohms
Velocity	84%
Inner Conductor DC Resistance	4.28 (Ω/1000ft)
Outer Conductor DC Resistance	3.89 (Ω/1000ft)
Shielding Effectiveness	90 dB
Jacket Spark	5,000 VAC
Cutoff Frequency	31 GHz
Peak Power	5.6 kW
Voltage Withstand	1,500 VDC

### Mechanical & Environmental Properties:

Minimum Bend Radius	0.75"
Storage Temperature	-94°F to 185°F
Installation Temperature	-40°F to 185°F
Operating Temperature	-40°F to 185°F

### Attenuation & Average Power (68°F):

Frequency (MHz)	Typical Attenuation (dB/100ft)	Average Power (kW)
30	1.60	1.24
50	2.10	0.96
150	3.60	0.55
220	4.40	0.45
450	6.30	0.31
900	9.10	0.22
1500	11.80	0.17
1800	13.00	0.15
2000	13.80	0.14
2500	15.50	0.13
5800	24.40	0.08



This product complies with European Directive 2011/65/EU (RoHS-2)

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On special orders, the customer must accept all factory lengths and +/- 10% of the order quantity

Customer Approval:

Company Name: \_\_\_\_\_

Authorized Representative: \_\_\_\_\_ Date: \_\_\_\_\_

Specification Issue Date: March 4, 2009