



# PRODUCT DATA SHEET

Controlled Document - Engineering Drive



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## SIGNA-WAVE™ - 400 SERIES Extra Flexible Communications Cable

Part Number	Designation	Jacket	1000' Stock Part Code
989400	Indoor/Outdoor Extra Flex	TPE	989400-06-08

### Construction Specifications:

	Material	Diameter
Inner conductor	7/.0380" Bare Copper	0.108" Nom.
Dielectric	Foamed Polyethylene	0.295" Nom.
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	0.323" Nom.
Jacket	Thermoplastic Elastomer	0.405" Nom.

### Electrical Properties:

Capacitance	23.9 pF/ft
Impedance	50 Ohms
Velocity	85%
Inner Conductor DC Resistance	1.07 ( $\Omega$ /1000ft)
Outer Conductor DC Resistance	1.65 ( $\Omega$ /1000ft)
Shielding Effectiveness	90 dB
Jacket Spark	8,000 VAC
Cutoff Frequency	16.2 GHz
Peak Power	16.0 kW
Voltage Withstand	2,500 VDC

### Mechanical & Environmental Properties:

Minimum Bend Radius	1.00"
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	0.80	2.77
50	1.10	2.14
150	1.80	1.22
220	2.20	1.00
450	3.30	0.69
900	4.70	0.48
1500	6.20	0.36
1800	6.80	0.33
2000	7.20	0.31
2500	8.10	0.28
5800	13.00	0.17



This product complies with European Directive 2002/95/EC (RoHS)

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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