



# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1530 Shields Drive  
Waukegan, IL 60085  
Toll-Free (800) 323-9355  
Fax: (847) 689-1192



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

| Part Number | Designation   | Jacket               | 1000' Stock Part Code |
|-------------|---|----------------------|-----------------------|
| 986400      | Standard Outdoor  | Polyethylene         | 986400-06-08          |
| 987400      | Watertight  | Flooded-Polyethylene | 987400-06-08          |
| 985400      | c(ETL)us - CMR FT4<br>MSHA Approved<br>P-07-KA090002-MSHA | Riser Rated PVC      | 985400-06-08          |

### Construction Specifications:

|                 | Material                                   | Diameter    |
|-----------------|--|-------------|
| Inner conductor | Solid BCCAL                                | 0.108" Nom. |
| Dielectric      | Foamed Polyethylene                        | 0.285" Nom. |
| Outer Conductor | Bonded Aluminum Foil + Tinned Copper Braid | 0.320" Nom. |
| Jacket          | UV Resistant Black Polyethylene<br>or PVC  | 0.405" Nom. |

### Electrical Properties:

|                               |                 |
|-------------------------------|-----------------|
| Capacitance                   | 23.9 pF/ft      |
| Impedance                     | 50 Ohms         |
| Velocity                      | 85%             |
| Inner Conductor DC Resistance | 1.39 (Ω/1000ft) |
| Outer Conductor DC Resistance | 1.65 (Ω/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              | 0.70                           | 3.30               |
| 50              | 0.90                           | 2.60               |
| 150             | 1.50                           | 1.50               |
| 220             | 1.90                           | 1.20               |
| 450             | 2.70                           | 0.83               |
| 900             | 3.90                           | 0.58               |
| 1500            | 5.10                           | 0.44               |
| 1800            | 5.70                           | 0.40               |
| 2000            | 6.00                           | 0.37               |
| 2500            | 6.80                           | 0.33               |
| 5800            | 10.80                          | 0.21               |



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: December 29, 2008