



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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SIGNA-WAVE™ - 400 SERIES Flexible Communications Cable

Part Number	Designation	Jacket
TBD	Standard Outdoor	Polyethylene

PRINT: TRI-V TOOL & MFG.CO. (www.Tri-VTool.com) P/N TBD 50 OHM 400 SERIES - MADE IN USA

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	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: TRI-V Tool & MFG. CO.

Authorized Representative: [Signature] Date: 10/24/14

Specification Issue Date: October 22, 2014