

TWS-400FR Coaxial Cable



Construction Specifications		
	Material	Diameter in/mm
1. Inner Conductor	Copper Clad Aluminum	0.108"
2. Dielectric	Physical Foam Polyethylene	0.285"
3. Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	0.32"
4. Jacket	Black FR Polyethylene	0.405"

Electrical Characteristics	
Capacitance	23.9 pF/ft
Impedance	50 Ohm
Velocity	85%
Inner Conductor DC Resistance	< 1.39 Ω/1000ft
Outer Conductor DC Resistance	< 1.39 Ω/1000ft
Time Delay	1.2 nS/ft
Shielding Effectiveness	>90
Inductance (μH/ft)	0.059
Voltage Withstand	2500 VDC
Jacket Spark	8000 VAC
Cut Off Frequency	16.2 GHz
Peak Power	16 kW
Return Loss 0-3GHz	-18

Mechanical and Environmental Characteristics	
Installation Bend Radius	1.0"
Repeated Bend Radius	4.0"
Bending Movement	0.5 ft-lb
Tensile Strength	160 lbs.
Flat Plate Crush (lb/in)	40
Operating Temp	-40 °C to +85 °C
Installation Temp	-70 °C to +85 °C
Storage Temp	-40 °C to +85 °C
RoHS/REACH	Compliant

Part Number	TWS-400FR
Tessco Sku	384674

Ventev's TWS-400FR series is non-halogenated, low smoke, fire retardant cable that is designed for easy installation with maximum flexibility where curves, bends and twists rule out the use of standard hard-line transmission cables. Designed for any indoor, non-plenum application requiring high-quality, flexible cabling such as WLL, GPS, Wi-Fi, WLAN, WISP, WiMax, SCADA and mobile applications. Ventev's cable is compatible with a wide variety of connectors and is ideal for any off-the-shelf or customized cable assembly.

Ventev bulk cable is covered by the company's 7-year warranty.

For more information or to purchase, contact Ventev:

800.851.4965 or sales@ventev.com

Attenuation (68° F) and Avg. Power (104°F) At Sea Level		
Frequency (MHz)	Max Attenuation dB/100 ft	Max Attenuation dB/100m
30	0.9	2.8
50	1.1	3.6
150	1.7	5.6
220	2.1	6.9
450	3.0	9.8
700	3.8	12.8
800	4.2	13.9
900	4.3	14.3
1500	5.7	19.0
1800	5.9	20.0
2000	6.3	21.3
2500	7.1	24.2
3000	7.9	26.8
3500	8.6	29.2
5800	11.9	40.7
6000	12.2	41.8
6300	12.1	41.5
6600	12.4	42.7
6900	12.5	43.2
7300	13.3	46.1

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Connectors for TWS-400 cable

Part Number	Tessco Sku	Description
CON-01-400	440939	RPTNC Jack (M)
CON-02-400	416952	RPTNC Plug (F)
CON-03-400	452950	RPTNC BH Jack (M)
CON-04-400	493911	TNC Jack (F)
CON-05-400	415903	TNC Plug (M)
CON-06-400	422933	N-Style Jack (F)
CON-07-400	462958	N-Style Plug (M)
CON-07-400-RA	436949	RA N-Style Plug (M)
CON-08-400	483983	N-Style BH Jack (F)
CON-11-400	488953	BNC Jack (F)
CON-12-400	443916	BNC Plug (M)
CON-17-400	479910	SMA Jack (F)
CON-18-400	451992	SMA Plug (M)
CON-19-400	432923	RPSMA Jack (M)
CON-20-400	464918	RPSMA Plug (F)
CON-01-400-CP	389624	RPTNC Jack (M) with CCP
CON-02-400-CP	389434	RPTNC Plug (F) with CCP
CON-05-400-CP	367873	TNC Plug (M) with CCP
CON-06-400-CP	346020	N-Style Jack (F)
CON-07-400-CP	346795	N-Style Plug Plug (M)
CON-07-400-CP-HEX	348407	N-Style Plug (M) Hex Head with CCP
CON-19-400-CP	368412	RPSMA Jack (M) with CCP
CON-20-400-CP	318283	RPSMA Plug (F) with CCP

Tools for TWS-400 Cable

Part Number	Tessco Sku	Description
HT-106L	316485	Crimp Tool
HT-322S3	435904	3-Blade Strip Tool
TWS-CTK-400	372317	3-Blade Strip and Crimp Tool Kit