



TerraWave Solutions® TWS-195 Coaxial Cable

TerraWave's **TWS-195** series cable is designed for easy installation with maximum flexibility where curves, bends and twists rule out the use of standard hard-line transmission cables. The cable is constructed of a UV resistant polyethylene jacket providing maximum durability and protection from harsh elements and is designed for any application requiring high-quality, flexible cabling such as WLL, GPS, WLAN, WISP, WiMAX, SCADA and mobile applications. TerraWave's cable is compatible with a wide variety of connectors and is ideal for any off-the-shelf or customized cable assembly.



TerraWave Part Number: TWS-195

Construction Specification		
	Material	Diameter
Inner Conductor	Solid Copper	0.037" ± 0.001"
Dielectric	Physical Foam Polyethylene	0.110" ± 0.006"
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.139"
Jacket	Black Polyethylene	0.195" ± 0.006"

Electrical Characteristics	
Capacitance	25.4 pF/ft
Impedance	50 Ω
Inductance	0.066 μH/ft
Velocity	80%
Inner Conductor DC Resistance	< 7.6 (Ω/1000 ft)
Outer Conductor DC Resistance	< 4.9 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Jacket Spark	5000 VAC
Cut off Frequency	41 GHz
Peak Power	2.5 kW

Mechanical and Environmental Characteristics	
Min. Bend Radius	0.984"
Storage Temperature	-70° F to +185° F
Installation Temperature	-40° F to +185° F
Operating Temperature	-40° F to +185° F

General Information	
Warranty	5 Years
Life Expectancy	20 Years for Outdoor Use



Attenuation and Avg. Power (68° F)			
Frequency MHz	Typical Attenuation dB/100 ft	Max Attenuation dB/100 ft	Average Power kW
30	1.9	2.0	0.78
50	2.5	2.5	0.60
150	4.3	4.4	0.35
220	5.2	5.4	0.29
450	7.5	7.8	0.20
900	10.7	11.1	0.14
1500	13.4	14.5	0.11
1800	15.3	16.0	0.10
2000	16.1	16.9	0.09
2500	18.1	19.0	0.08
5800	28.2	29.9	0.05

**TerraWave Solutions® TWS-195 Coaxial Cable (continued)
Connectors for TWS-195 Series Cable**



**TWS-195 Series
Right Angle SMA Plug (M)**



**TWS-195 Series
RPTNC Bulkhead Jack (F)**



**TWS-195 Series
RPBNC Plug (M)**

TerraWave Part Number	Product Description
CON-01-195	RPTNC Jack (F)
CON-02-195	RPTNC Plug (M)
CON-03-195	RPTNC BH Jack (F)
CON-04-195	TNC Jack (F)
CON-05-195	TNC Plug (M)
CON-06-195	N-Style Jack (F)
CON-07-195	N-Style Plug (M)
CON-08-195	N-Style BH Jack (F)
CON-09-195	RP N-Style Jack (F)
CON-10-195	RP N-Style Plug (M)
CON-11-195	BNC Jack (F)
CON-11-195-BH	BNC BH Jack (F)

TerraWave Part Number	Product Description
CON-12-195	BNC Plug (M)
CON-13-195	RPBNC Jack (F)
CON-14-195	RPBNC Plug (M)
CON-15-195	RPBNC BH Jack (F)
CON-17-195	SMA Jack (F)
CON-18-195	SMA Plug (M)
CON-18-195-RA	RA SMA Plug (M)
CON-19-195	RPSMA Jack (F)
CON-19-195-RA	RA RPSMA Jack (F)
CON-20-195	RPSMA Plug
CON-23-195	SMA BH Jack (F)
CON-30-195	RPSMA BH Jack (F)

Crimping and Stripping Tools for TWS-195 Series Cable

TerraWave Part Number	Product Description
HT-336P1	Crimp Tool (RG 58, 59, 62, 6)
HT-336A	Crimp Tool (RG 58, 59, 62)
HT-322S	2 Blade Strip Tool
HT-312B	3 Blade Strip Tool



**TWS-195 Series
HT-336P1 Crimp Tool**



**TWS-195 Series
HT-312B Strip Tool**

Connector Adapters for TWS-195 Connectors

TerraWave Part Number	Product Description
RARPTNCJ-RPTNCP	RA RPTNC Jack (F) to RPTNC Plug (M)
RPTNCJACK-NPLUG	RPTNC Jack (F) to N-Style Plug (M)
RPTNCP-NJ	RPTNC Plug (M) to N-Style Jack (F)
RPTNCP-NP	RPTNC Plug (M) to N-Style Plug (M)
RPTNCP-RPSMAJ	RPTNC Plug (M) to RPSMA Jack (F)
NJACK-NJACK	N-Style Jack (F) to N-Style Jack (F)
NM-NM	N-Style Plug (M) to N-Style Plug (M)
SMAP-TNCJ	SMA Plug (M) to TNC Jack (F)
AXA-SMSM	SMA Jack (F) to SMA Jack (F)



**N-Style Plug (M)
to N-Style Plug (M)**



**RA RPTNC Jack (F)
to RPTNC Plug (M)**

