TWS-100 Bulk Coaxial Cable

TerraWave's TWS-100 series bulk coaxial cable is designed for easy installation. With maximum flexibility where curves, bends and twists exist our cable eliminates the need for hard-line transmission cables. The cable is constructed of a UV resistant polyethylene jacket providing durability and protection from harsh elements. It 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 TerraWave connectors and is can be used for an off-the-shelf cable assembly or customized cable assembly. *For questions or to purchase product, contact your Regional Sales Executive at 210-375-8482, 800-851-4965 or sales @terra-wave.com.*



TESSCO SKU: 370169
TerraWave Part Number: TWS-100

Construction Specifications		
	Material	**Diameter**
Inner Conductor	Solid Copper Clad Steel	0.018"
Dielectric	Solid Polyethylene	0.059"
Outer Conductor	Un-Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.083"
Jacket	Low Smoke Zero Halogen (LSZH)	0.109"

Electrical Characteristics	
Capacitance	30.8 pF/ft
Impedance	50 Ω
Velocity	66%
Inner Conductor DC Resistance	< 81 (Ω/1000 ft)
Outer Conductor DC Resistance	< 9.5 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Inductance	0.077 µH/ft
Jacket Spark	2000 VAC
Cut off Frequency	41 GHz
Peak Power	0.6 kW
Return Loss	≤-18 dB (0.03-3000 MHz)

Mechanical and Environmental Characteristics	
Installation Bend Radius	0.25"
Repeated Bend Radius	1.0"
Weight	0.00928 lb/ft
Operating Temperature	-40° F to +185° F
Installation Temperature	-40° F to +185° F
Storage Temperature	-94° F to +185° F

General Information	
Warranty	7 Years
Life Expectancy	20 Years (Outdoor Use)

ECHA REACH RoHS compliant

Attenuation (68° F) and Avg. Power (104°F) At Sea Level			
Frequency MHz	**Typical Attenuation dB/100 ft**	**Max Attenuation dB/100 ft**	**Average Power kW**
30	3.9	4.7	0.23
50	5.1	5.6	0.18
150	8.9	9.0	0.10
220	10.9	11.0	0.08
450	15.8	15.8	0.06
700	19.9	20.1	0.04
750	20.7	20.8	0.04
800	21.4	21.6	0.04
900	22.8	22.9	0.04
1500	30.1	30.5	0.03
1800	33.2	33.5	0.03
2000	35.2	35.5	0.03
2500	39.8	40.5	0.02
5800	64.1	66.0	0.01

TWS-100 Bulk Coaxial Cable

> Connectors for TWS-100 Series Cable



TWS-100 Series
N-Style Bulkhead Jack (F)



TWS-100 Series
SMA Jack (F)



TWS-100 Series
RPTNC Plug (M)

TESSCO SKU	TerraWave Part Number	Product Description
487998	CON-01-100	RPTNC Jack (F)
459956	CON-02-100	RPTNC Plug (M)
443991	CON-02-100-RA	RA RPTNC Plug (M)
456996	CON-03-100	RPTNC BHJack (F)
438970	CON-04-100	TNC Jack (F)
419903	CON-05-100	TNC Plug (M)
463940	CON-06-100	N-Style Jack (F)
481930	CON-07-100	N-Style Plug (M)
414984	CON-08-100	N-Style BHJack (F)
455949	CON-09-100	RP N-Style Jack (F)
474969	CON-10-100	RP N-Style Plug (M)
489956	CON-11-100	BNC Jack (F)
433936	CON-11-100-BH	BNC BH Jack (F)
466973	CON-12-100	BNC Plug (M)
486947	CON-13-100	RPBNC Jack (F)

TESSCO SKU	TerraWave Part Number	Product Description
448925	CON-14-100	RPBNC Plug (M)
494978	CON-15-100	RPBNC BH Jack (F)
456942	CON-17-100	SMA Jack (F)
495920	CON-18-100	SMA Plug (M)
446914	CON-19-100	RPSMA Jack (F)
414908	CON-20-100	RPSMA Plug (M)
426939	CON-21-100	RA MCX Plug (M)
477908	CON-22-100	RA MMCX Plug (M)
482975	CON-24-100	Proxim Connector (F)
494915	CON-25-100	TNC BH Jack (F)
449982	CON-30-100	RPSMA BH Jack (F)
492958	CON-33-100	MMCX Jack (F)
370114	CON-33-100-RA	RA MMCX Jack (F)
430954	CON-34-100	MMCX Plug (M)

> Tools for TWS-100 Series Cable

TESSCO SKU	TerraWave Part Number	Description
471989	HT-336T	Crimp Tool for TWS-100 Series Cable



> Connector Adapters for TWS-100 Series Cable

TESSCO SKU	TerraWave Part Number	Product Description
323264	RARPTNCJ-RPTNCP	RA RPTNC Jack (F) to RPTNC Plug (M)
467986	RPTNCJACK-NPLUG	RPTNC Jack (F) to N-Style Plug (M)
413999	RPTNCP-NJ	RPTNC Plug (M) to N-Style Jack (F)
424971	RPTNCP-NP	RPTNC Plug (M) to N-Style Plug (M)
315485	RPTNCP-RPSMAJ	RPTNC Plug (M) to RPSMA Jack (F)
424995	NJACK-NJACK	N-Style Jack (F) to N-Style Jack (F)
485981	NM-NM	N-Style Plug (M) to N-Style Plug (M)
312060	SMAP-TNCJ	SMA Plug (M) to TNC Jack (F)
437905	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)

Version 3.0