



TerraWave Solutions® TWS-240 Coaxial Cable

TerraWave's **TWS-240** 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 Jack (F)et 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-240

Construction Specification		
	Material	Diameter
Inner Conductor	Solid Copper	0.056" ± 0.001"
Dielectric	Physical Foam Polyethylene	0.150" ± 0.006"
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.178"
Jacket	Black Polyethylene	0.240" ± 0.001"

Electrical Characteristics	
Capacitance	24.2 pF/ft
Impedance	50 Ω
Inductance	0.060 μH/ft
Velocity	84%
Inner Conductor DC Resistance	< 3.2 (Ω/1000 ft)
Outer Conductor DC Resistance	< 3.89 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Jacket Spark	5000 VAC
Cut off Frequency	31 GHz
Peak Power	5.6 kW

Mechanical and Environmental Characteristics	
Min. Bend Radius	0.752"
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	1.3	1.56	1.49
50	1.7	1.95	1.15
150	3.0	3.40	0.66
220	3.7	4.18	0.54
450	5.3	5.95	0.38
900	7.6	8.58	0.26
1500	9.9	11.18	0.20
1800	10.9	12.30	0.18
2000	11.5	13.00	0.17
2500	12.9	14.55	0.15
5800	20.4	23.00	0.10

**TerraWave Solutions® TWS-240 Coaxial Cable (continued)
Connectors for TWS-240 Series Cable**



**TWS-240 Series
N-Style Plug (M)**



**TWS-240 Series
RPTNC Plug (M)**

TerraWave Part Number	Product Description
CON-01-240	RPTNC Jack (F)
CON-02-240	RPTNC Plug (M)
CON-04-240	TNC Jack (F)
CON-05-240	TNC Plug (M)
CON-06-240	N-Style Jack (F)
CON-07-240	N-Style Plug (M)
CON-11-240	BNC Jack (F)
CON-12-240	BNC Plug (M)

TerraWave Part Number	Product Description
CON-13-240	RPBNC Jack (F)
CON-14-240	RPBNC Plug (M)
CON-17-240	SMA Jack (F)
CON-18-240	SMA Plug (M)
CON-19-240	RPSMA Jack (F)
CON-20-240	RPSMA Plug (M)
CON-30-240	RPSMA BH Jack (F)
CON-35-240	UHF Plug (M)

Crimping Tool for TWS-240 Series Cable

TerraWave Part Number	Product Description
HT-336A	Crimp Tool for TWS-195, TWS-200 & TWS-240



Connector Adapters for TWS-240 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)**

