



## TerraWave Solutions® TWS-400DB (Outdoor Watertight) Coaxial Cable

TerraWave's **TWS-400DB** is a watertight cable that is designed for easy underground installation with maximum flexibility where curves, bends and twists rule out the use of standard hard-line transmission cables. Assembled with a reliable weatherproofing compound in and around the cable braid, it is designed for any outdoor application requiring dependable, 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. Visit [www.terrawave.com](http://www.terrawave.com) for additional information.



TESSCO SKU: 343685  
TerraWave Part Number: TWS-400DB

Construction Specification		
	Material	Diameter
Inner Conductor	Copper Clad Aluminum	0.108"
Dielectric	Physical Foam Polyethylene	0.285"
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.611"
Jacket	Black Polyethylene	0.405"

Electrical Characteristics	
Capacitance	23.9 pF/ft
Impedance	50 Ω
Inductance	.060 μH/ft
Velocity	85%
Inner Conductor DC Resistance	< 1.39 (Ω/1000 ft)
Outer Conductor DC Resistance	< 1.65 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Jacket Spark	8000 VAC
Cut off Frequency	16.2 GHz
Peak Power	16 kW

Mechanical and Environmental Characteristics	
Min. Bend Radius	1.00"
Storage Temperature	-70° F to +185° F
Installation Temperature	-40° F to +185° F
Operating Temperature	-40° F to +185° F

General Information	
Warranty	7 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	0.7	0.86	3.33
50	0.9	1.05	2.57
150	1.5	1.7	1.47
220	1.9	2.1	1.20
450	2.7	3	0.83
900	3.9	4.5	0.58
1500	5.1	5.8	0.44
1800	5.7	6.1	0.40
2000	6	6.5	0.37
2500	6.8	7.7	0.33
5800	10.8	12.2	0.21

For detailed product information and to purchase product, please contact a TerraWave wireless networking solutions sales engineer at 210-375-8482, 800-851-4965, [sales@terrawave.com](mailto:sales@terrawave.com) or visit [www.terrawave.com](http://www.terrawave.com).

Version: 2.5



**TerraWave Solutions® TWS-400DB (Outdoor Watertight) Coaxial Cable (continued)  
Connectors for TWS-400DB Series Cable**



**TWS-400 Series  
RPTNC Bulkhead Jack (F)**



**TWS-400 Series  
TNC Plug (M)**



**TWS-400 Series  
N-Style Plug (M)**

TESSCO SKU	TerraWave Part Number	Description
440939	CON-01-400	RPTNC Jack (F)
416952	CON-02-400	RPTNC Plug (M)
452950	CON-03-400	RPTNC BH Jack (F)
493911	CON-04-400	TNC Jack (F)
415903	CON-05-400	TNC Plug (M)
422933	CON-06-400	N-Style Jack (F)
462958	CON-07-400	N-Style Plug (M)
436949	CON-07-400-RA	RA N-Style Plug (M)
483983	CON-08-400	N-Style BH Jack (F)
452992	CON-09-400	RP N-Style Jack (F)

TESSCO SKU	TerraWave Part Number	Description
498921	CON-10-400	RP N-Style Plug (M)
488953	CON-11-400	BNC Jack (F)
443916	CON-12-400	BNC Plug (M)
499992	CON-13-400	RPBNC Jack (F)
466931	CON-14-400	RPBNC Plug (M)
430910	CON-15-400	RPBNC BH Jack (F)
479910	CON-17-400	SMA Jack (F)
451992	CON-18-400	SMA Plug (M)
432923	CON-19-400	RPSMA Jack (F)
464918	CON-20-400	RPSMA Plug (M)

**Crimping and Stripping Tools for TWS-400DB Series Cable**

SKU	TerraWave Part Number	Product Description
316485	HT-106L	Crimp Tool
449946	HT-322C1	2-Blade Strip Tool
435904	HT-322S3	3-Blade Strip Tool
372317	TWS-CTK-400	3-Blade Strip and Crimp Tool Kit



**TWS-400 Series  
HT-106L Crimp Tool**



**TWS-400 Series  
HT-22S3 3-Blade Strip Tool**

**Connector Adapters for TWS-400DB Connectors**

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)**

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