TWS-400DB (Outdoor Watertight) Bulk Coaxial Cable

TerraWave's TWS-400DB series cable is watertight and designed for easy underground installation. With maximum flexibility where curves, bends and twists exist, our cable eliminates the need for hard-line transmission cables. Assembled with a reliable weatherproofing compoung in and around the cable braid, it is ideal for any outdoor 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: 343685
TerraWave Part Number: TWS-400DB

Construction Specifications		
	Material	**Diameter**
Inner Conductor	Copper Clad Aluminum	0.108"
Dielectric	Physical Foam Polyethylene	0.285"
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.32"
Jacket	Flooding + Black Polyethylene	0.40"

Electrical Characteristics	
Capacitance	23.9 pF/ft
Impedance	50 Ω
Velocity	85%
Inner Conductor DC Resistance	< 1.39 (Ω/1000 ft)
Outer Conductor DC Resistance	< 1.85 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Inductance	.059 µH/ft
Jacket Spark	5000 VAC
Cut off Frequency	16.2 GHz
Peak Power	16 kW
Return Loss	≤-18 dB (0.03-3000 MHz)

Mechanical and Environmental Characteristics	
Installation Bend Radius	1.0"
Repeated Bend Radius	4.0"
Weight	0.07 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	0.7	0.8	3.33
50	0.09	1.0	2.57
150	1.5	1.7	1.28
220	1.9	2.1	1.05
450	2.7	3.0	0.72
700	3.4	3.9	0.59
750	3.55	4.08	0.56
800	3.67	4.25	0.54
900	3.9	4.5	0.50
1500	5.1	5.8	0.38
1800	5.7	6.1	0.34
2000	6.0	6.5	0.33
2500	6.8	7.7	0.29
5800	10.8	12.2	0.18

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> Connectors for TWS-400DB Series Cable

TESSCO SKU	TerraWave Part Number	Product Description
440939	CON-01-400	RPTNC Jack (M)
416952	CON-02-400	RPTNC Plug (F)
452950	CON-03-400	RPTNC BH Jack (M)
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 (M)

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

TESSCO SKU	TerraWave Part Number	Product Description
389624	CON-01-400-CP	RPTNC Jack (M) with CCP
389434	CON-02-400-CP	RPTNC Plug (F) with CCP
367873	CON-05-400-CP	TNC Plug (M) with CCP
346020	CON-06-400-CP	N-Style Jack (F)
346795	CON-07-400-CP	N-Style Plug Plug (M)
348407	CON-07-400-CP-HEX	N-Style Plug (M) Hex Head with CCP
368412	CON-19-400-CP	RPSMA Jack (M) with CCP
318283	CON-20-400-CP	RPSMA Plug (F) with CCP

RPTNC Jack (M) with CCP

> Tools for TWS-400DB Series Cable

TESSCO SKU	TerraWave Part Number	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

HT-106L Crimp Tool

> Connector Adapters for TWS-400DB Series Cable

TESSCO SKU	TerraWave Part Number	Product Description
467986	RPTNCJACK-NPLUG	RPTNC Jack (M) to N-Style Plug (M)
327423	RPTNCJ-RPSMAP	RPTNC Jack (M) to RPSMA Plug (F)
323264	RARPTNCJ-RPTNCP	RA RPTNC Jack (M) to RPTNC Plug (F)
413999	RPTNCP-NJ	RPTNC Plug (F) to N-Style Jack (F)
424971	RPTNCP-NP	RPTNC Plug (F) to N-Style Plug (M)
315485	RPTNCP-RPSMAJ	RPTNC Plug (F) to RPSMA Jack (M)
424995	NJACK-NJACK	N-Style Jack (F) to N-Style Jack (F)
314245	NM-NM	N-Style Plug (M) to N-Style Plug (M)
359936	NP-NJ	N-Style Plug (M) to N-Style Jack (F)
312060	SMAP-TNCJ	SMA Plug (M) to TNC Jack (F)
437905	AXA-SMSM	SMA Jack (F) to SMA Jack (F)
329231	RPSMAJ-NP	RPSMA Jack (M) to N-Style Plug (M)
355352	RPSMAP-RARPSMAJ	RPSMA Plug (F) to Right Angle RPSMA Jack (M)
329153	RPSMAP-NJ	RPSMA Plug (F) to N-Style Jack (F)
399662	RPSMAP-RPSMAJ	RPSMA Plug (F) to RPSMA Jack (M)
319095	RPSMAP-RPSMAP	RPSMA Plug (F) to RPSMA Plug (F)

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

Version 3.0