



## TerraWave Solutions® TWS-240FR-M (Fire Retardant) Coaxial Cable

TerraWave's **TWS-240FR-M** series is non-halogenated, low smoke, fire retardant cable that is designed for easy installation with maximum flexibility where curves, bends and twists rule out the use of standard hard-line transmission cables. This cable has the added benefit of being MSHA tested and approved for safe and reliable use in underground mining applications where critical safety standards apply. Designed for any indoor, non-plenum 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. Visit [www.terrawave.com](http://www.terrawave.com) for additional information.



TESSCO SKU: 324598  
TerraWave Part Number: TWS-240FR-M

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	7 Years
Life Expectancy	20 Years for Outdoor Use

U.S. DEPARTMENT OF LABOR  
**MSHA CERTIFIED**  
P-07-KA080017-MSHA  
MINE SAFETY & HEALTH ADMINISTRATION



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 TWS-400FR-M is RoHS Compliant and MSHA Certified P-07-KA080017-MSHA.**

For detailed product information and to purchase product, please contact a TerraWave wireless networking solutions sales engineer at 210-375-8482, 800-851-4965,

Version: 2.5

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



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



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

TESSCO SKU	TerraWave Part Number	Product Description	TESSCO SKU	TerraWave Part Number	Product Description
354039	CON-01-240	RPTNC Jack (F)	344496	CON-13-240	RPBNC Jack (F)
394461	CON-02-240	RPTNC Plug (M)	344757	CON-14-240	RPBNC Plug (M)
394258	CON-04-240	TNC Jack (F)	304759	CON-17-240	SMA Jack (F)
384028	CON-05-240	TNC Plug (M)	315399	CON-18-240	SMA Plug (M)
354507	CON-06-240	N-Style Jack (F)	304340	CON-19-240	RPSMA Jack (F)
373491	CON-07-240	N-Style Plug (M)	364735	CON-20-240	RPSMA Plug (M)
374477	CON-11-240	BNC Jack (F)	394980	CON-30-240	RPSMA BH Jack (F)
384862	CON-12-240	BNC Plug (M)	394841	CON-35-240	UHF Plug (M)

**Crimping Tool for TWS-240FR-M Series Cable**

TESSCO SKU	TerraWave Part Number	Product Description
487941	HT-336A	Crimp Tool for TWS-195, TWS-200 & TWS-240



**Connector Adapters for TWS-240FR-M 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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