

TWS-400 Bulk Coaxial Cable

Ventev's TWS-400 series cable is designed for easy installation. With maximum flexibility where curves, bends and twists exist, the cable eliminates the need for hardline transmission cables. Constructed of a UV resistant polyethylene jacket, it provides maximum durability and protection from harsh elements. The 400 series cable is ideal for any application requiring high-quality, flexible cabling such as WLL, GPS, WLAN, WISP, WiMax, SCADA and mobile applications. Compatible with a variety of Ventev connectors and 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@ventev.com.*



TESSCO SKU: 380348 Part Number: TWS-400

| 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 | 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 | 0.088 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) |



| 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 | 0.81 | 3.33 |
| 50 | 0.09 | 0.99 | 2.57 |
| 150 | 1.5 | 1.7 | 1.28 |
| 220 | 1.9 | 2.1 | 1.05 |
| 450 | 2.7 | 3.0 | 0.72 |
| 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 |

TWS-400 Bulk Coaxial Cable

> Connectors for TWS-400 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-400 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-400 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)

