

# F677TSVVM 830BM

## 75 Ohm Coaxial Cable

### Drop Cable

### BM830 (ETL)

1100 CommScope Place  
 Hickory, NC 28603  
 (800) 982-1708  
 (828) 324-2200  
 Fax: (828) 324-3400  
 Int'l Fax: (828) 323-4989  
[www.commscope.com](http://www.commscope.com)  
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**PRODUCT DESCRIPTION:**

**BONDED LAMINATED ALUMINUM TAPE, 77% BRAID, LAMINATED ALUMINUM TAPE, FLAME RETARDANT PVC JACKET, .051" MESSENGER**  
 MEETS NEC ARTICLE 830 BM RATING, 150 VOLTS  
 NETWORK POWERED BROADBAND COMMUNICATIONS CABLE

**CENTER CONDUCTOR:**

18 AWG COPPER-CLAD STEEL  
 NOMINAL DIAMETER: 0.040" (1.02 mm)

**DIELECTRIC:**

GAS EXPANDED POLYETHYLENE  
 NOMINAL DIAMETER OVER DIELECTRIC: 0.180" (4.57 mm)

**SHIELD:**

**1<sup>ST</sup> SHIELD:** LAMINATED ALUMINUM TAPE BONDED TO THE DIELECTRIC  
 NOMINAL DIAMETER OVER TAPE: 0.187" (4.75 mm)  
**2<sup>ND</sup> SHIELD:** 34 AWG ALUMINUM BRAID WIRE  
 77% COVERAGE  
**3<sup>RD</sup> SHIELD:** LAMINATED ALUMINUM TAPE

**JACKET:**

FLAME RETARDANT PVC  
 NOMINAL DIAMETER OVER JACKET: 0.278" (7.06 mm)  
 NOMINAL JACKET THICKNESS: 0.030" (0.76 mm)

**MESSENGER:**

NOMINAL DIAMETER OF MESSENGER: 0.051" (1.30 mm)  
 MINIMUM BREAKING STRENGTH: 180 lbs. (82 kg)



Shipping Weight (Lbs.)/1000': 46 lbs.

**ELECTRICAL PROPERTIES:**

IMPEDANCE: 75.0 +/- 3.0 Ohms  
 VELOCITY OF PROPAGATION: 85.0% NOMINAL  
 ATTENUATION: @ 68°F (20°C)

@ Frequency MHz	dB/100 ft. (MAX.)	dB/100 meters (MAX.)
5 MHz	0.58 dB	1.90 dB
55 MHz	1.60 dB	5.25 dB
83 MHz	1.95 dB	6.40 dB
187 MHz	2.85 dB	9.35 dB
211 MHz	3.05 dB	10.00 dB
250 MHz	3.30 dB	10.82 Db
300 MHz	3.55 dB	11.64 dB
350 MHz	3.85 dB	12.63 dB
400 MHz	4.15 dB	13.61 dB
450 MHz	4.40 dB	14.43 dB
500 MHz	4.66 dB	15.29 dB
550 MHz	4.90 dB	16.08 dB
600 MHz	5.10 dB	16.73 dB
750 MHz	5.65 dB	18.54 dB
865 MHz	6.10 dB	20.01 dB
1000 MHz	6.55 dB	21.49 dB



Drawing not to scale.  
 Specifications subject to change.  
 Revision: 05/15/07