

## Product Descriptions

Catalog Number	Description	Cable Wt.		Shipping Wt.	
		lbs/kft	kg/km	lbs/kft	kg/km
<b>Bonded Foil Standard Construction - 60% Braid (90% Braid also available)</b>					
F1160BV	Bonded tape, 60% braid, PVC jacket	59	88	69	103
F1160BVV	Bonded tape, 60% braid, PVC jacket, meets NEC Article 820 V Rating (ETL listed)	59	88	69	103
F1160BVM ( <i>BrightWire</i> )	Bonded tape, 60% braid, PVC jacket .072 inch messenger	70	104	85	186
F1160BEF	Bonded tape, 60% braid, flooded for underground, PE jacket	51	76	61	91
F2-760BVV	Dual cable, bonded tape, 60% braid, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	118	177	143	213
F2-1160BEF	Dual cable, bonded tape, 60% braid, flooded for underground, PE jacket	93	138	118	176
F2-1160BVM	Dual cable, bonded tape, 60% braid, PVC jacket, .109 inch messenger	139	207	199	296
<b>Bonded Foil Tri-Shield Construction - 60% Braid + 40% Braid</b>					
F11TSV	Bonded tape, 60% braid, non-bonded tape, PVC jacket	57	85	67	100
F11TSVV	Bonded tape, 60% braid, non-bonded tape, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	57	85	67	100
F11TSVM ( <i>BrightWire</i> )	Bonded tape, 60% braid, non-braided tape, PVC jacket, .072 inch messenger	79	118	94	140
F11TSEF	Bonded tape, 60% braid, non-bonded tape, flooded for underground, PE jacket	52	77	62	92
F2-11TSVV	Dual cable, bonded tape, 60% braid, non-bonded tape, flame retardant PVC jacket, (ETL listed)	115	171	145	216
F2-11TSEF	Dual cable, bonded tape, 60% braid, non-bonded tape, flooded for underground, PE jacket	96	143	121	180
F2-11TSVM	Dual cable, bonded tape, 60% braid, non-bonded tape, PVC jacket, .109 inch messenger	137	204	197	293
<b>Bonded Foil Quad-Shield Construction - 60% + 40% Braid</b>					
F11SSV	Bonded tape, 60% braid, non-bonded tape, 40% braid, PVC jacket	62	92	72	107
F11SSVV	Bonded tape, 60% braid, non-bonded tape, 40% braid, flame retardant PVC jacket, meets NEC Article 820 V Rating (ETL listed)	62	92	72	107
F11SSVM ( <i>BrightWire</i> )	Bonded tape, 40% braid, non-bonded tape, 35% braid, PVC jacket .072 inch messenger	81	121	96	143
F11SSEF	Bonded tape, 60% braid, non-bonded tape, 40% braid flooded for underground, PE jacket	54	80	64	95
F2-11SSVV	Dual cable, bonded tape, 60%, non-bonded tape, flame retardant PVC jacket, (ETL listed)	117	174	142	211
F2-11SSEF	Dual cable, 60% braid, non-bonded tape, 40% braid flooded for underground, PE jacket	101	150	126	188
F2-11SSVM	Dual cable, bonded tape, 60% braid, non-bonded tape, 40% braid, PVC jacket, .109 inch messenger	145	216	205	305

**Size**

Attenuation is primarily a function of cable size. Basic products are available in the two most widely used sizes, 6 and 11. 6 series cable will meet most of your needs. For longer drops, choose 11 due to the lower attenuation values. Basic products feature copper clad steel center conductor and foam polyethylene dielectric.

**Attenuation (@68° F (20 C))**

Frequency (MHz)	6 Series		11 Series	
	dB/100 ft	d/B/100 m	dB/100 ft	dB/100 m
55	1.6	5.25	0.96	3.15
450	4.4	14.44	2.75	9.02
750	5.65	18.54	3.65	11.98
1000	6.55	21.49	4.35	14.27

**Other Electrical and Mechanical Characteristics**

Impedance: 75 ohms – Velocity of Propagation: 85%

*Standard Shield*



*Tri-Shield*



*Super-Shield*



**Jacket**

- High quality PVC with flame retardant jacket for indoor applications.
- PVC jacket for outdoor aerial applications.
- PE jacket for underground applications to resist abrasion and cuts

**Shielding**

The minimum recommended shielding for drop cable is an inner shield of aluminum-polypropylene-aluminum laminated tape bonded to the dielectric and a 60 percent braid of 34 AWG bare aluminum braid wire. This level of shielding is adequate for most of your applications and meets SCTE requirements.

Additional shielding is available to provide greater protection against signal ingress and egress.

**All Basic Products are available in 4 shielding options:**

*Good* ..... Bonded tape ..... + 60 % braid

*Better* ..... Bonded tape ..... + 77 % braid  
 + 60 % braid + non-bonded tape (Tri-Shield)

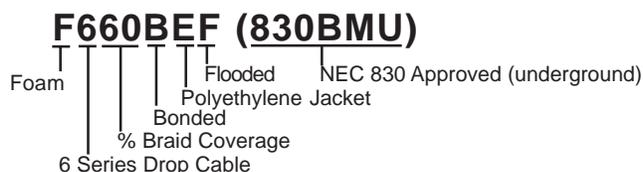
*Best*..... Bonded tape ..... + 60 % braid ..... + non-bonded tape ..... +40 % braid (Super-Shield)

## Drop Catalog Catalog Number Key

### Steps to Build the Catalog Number for the Cable You Need

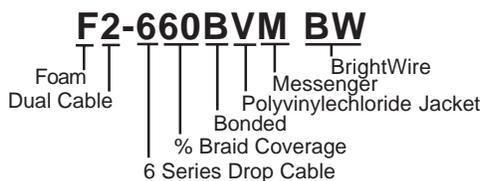
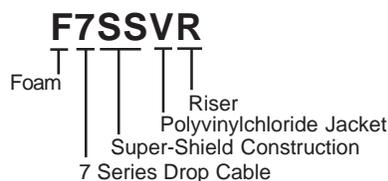
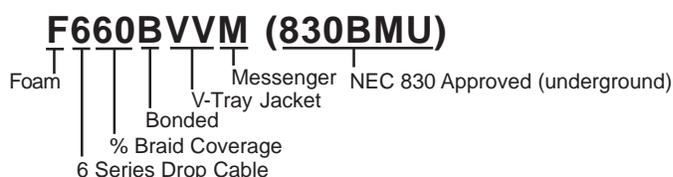
#### Prefix

- For 59, 6, 7 and 11 Series  
**F** = Gas Expanded Polyethylene Dielectric Foam  
**2** = Dual Cable  
**59, 6, 7, 11** = Drop Cable Series
- For QR 320 Drop Only  
**QR®** = Quantum Reach Cable Series

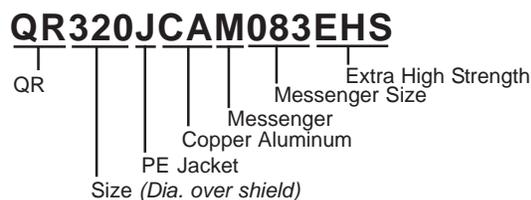


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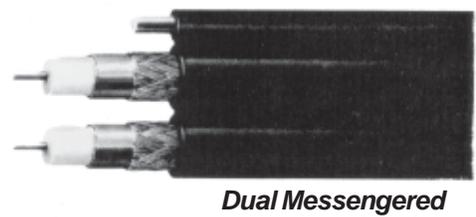
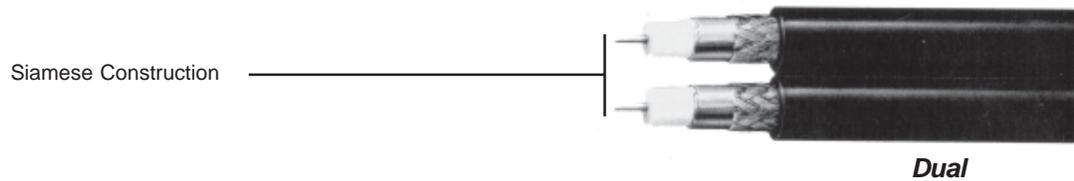
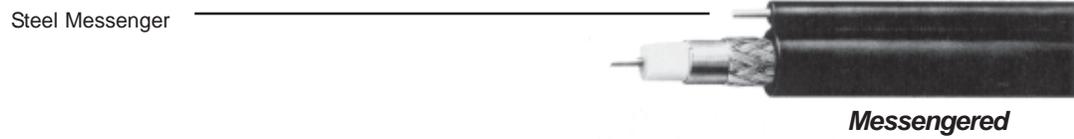
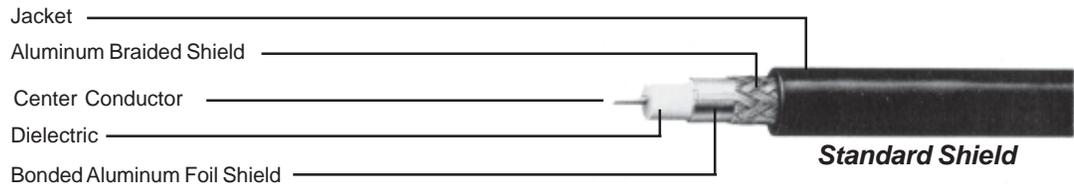
- For 59, 6, 7 and 11 Series  
**First 2** = Percentage of Braid digits Coverage (e.g. 53, 60, 67, 90, 95)  
**B** = Bonded Foil  
**E** = Polyethylene Jacket  
**V** = Polyvinylchloride Jacket  
**M** = Messenger  
**F** = Flooded  
**SS** = Super-Shield  
**TS** = Tri-Shield  
**BW** = BrightWire®  
**APD** = Amorphous Polypropylene Drop  
**V** = NEC CATV  
**R** = NEC CATVR  
**CMH** = CSA Flame Test FT-1  
**CMG** = CSA Flame Test FT-4  
**830BM** = Meets NEC Article 830 Aerial Requirements  
**830BMU** = Meets NEC Article 830 Underground Requirements



- For QR 320 Drop Only  
**J** = Jacketed  
**CA** = Copper Aluminum (*Copperclad*)  
**M** = Messenger  
**083** = Size of Messenger (*also available in 109*)  
**EHS** = Extra High Strength



## Construction Diagrams



# Product Specifications

## Standard Construction

- 14 gauge [0.064 in. (1.63 mm)] copper covered steel center conductor; gas expanded polyethylene dielectric
- Inner shield aluminum-polypropylene-aluminum laminated tape with overlap bonded to dielectric
- Outer shield of 34 AWG bare aluminum braid wire
- Jacket of black polyvinylchloride or polyethylene (flooded)
- Nominal O.D. 0.400 in. (10.16 mm)

Physical Dimensions						
Component	Std. Shield		Tri-Shield		Super-Shield	
	in	mm	in	mm	in	mm
Nominal Center Conductor Diameter	0.064	1.63	0.064	1.63	0.064	1.63
Nominal Diameter Over Dielectric	0.280	7.00	0.280	7.11	0.280	7.11
Nominal Diameter Over First Shield (Tape)	0.287	7.29	0.287	7.29	0.287	7.29
Nominal Diameter Over Jacket	0.400	10.16	0.400	10.16	0.407	10.34
Nominal Jacket Wall Thickness	0.042	1.07	0.039	0.99	0.037	0.94
Nominal Diameter of Steel Messenger (Single) (Dual)	0.072	1.83	0.072	1.83	0.072	1.83
	0.109	2.77	0.109	2.77	0.109	2.77

Mechanical Characteristics			
Minimum Breaking	0.072	365 lbs	166 kg <sub>f</sub>
Strength of Messenger	0.109	1800 lbs	1800 kg <sub>f</sub>

Electrical Characteristics	
Nominal Impedance	75 Ohms
Nominal Velocity of Propagation	85%

## Corrosion Resistance

Many products are available with a choice of two corrosion resistant treatments. Contact our Customer Service Department for specific information.

- **BrightWire®** is a dry, anti-corrosive treatment that chemically combines with metal components to form a protective shield against water and subsequent corrosion. (Exceeds the SCTE requirement for corrosion resistant cable.) BrightWire treatment is available on all PVC jacket products and can be recognized by its gold colored tape.
- **APD®** is a non-flowing, amorphous polypropylene flooding compound.

Specify BrightWire or APD when ordering product:

- **F1160BV-BW** (BrightWire® anti-corrosive treatment)
- **F1160BV-APD** (APD anti-corrosive treatment)

Attenuation (@68°F (20 C))		
Frequency (MHz)	Max. (dB/100 ft)	Max. (dB/100 m)
5	0.38	1.25
55	0.96	3.15
83	1.18	3.87
187	1.75	5.74
211	1.90	6.23
250	2.05	6.72
300	2.25	7.38
350	2.42	7.94
400	2.60	8.53
450	2.75	9.02
500	2.90	9.51
550	3.04	9.97
600	3.18	10.43
750	3.65	11.97
865	3.98	13.05
1000	4.35	14.27