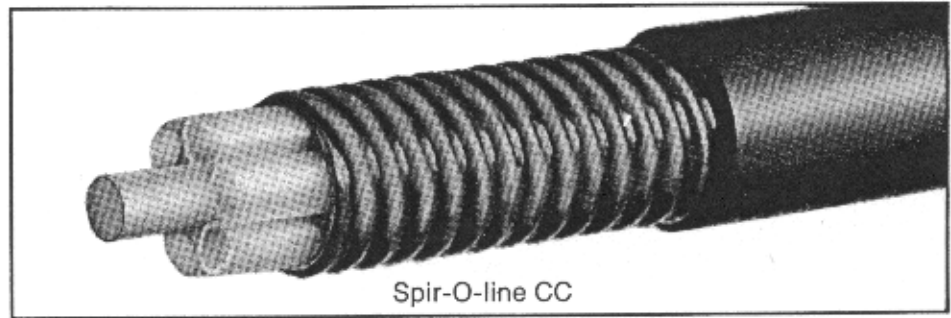


Features:

- Broadband
- Low VSWR
- No periodicity
- Low attenuation
- Improved peak power capability
- Eliminates connector disconnects
- Maximum power handling
- No special installation tools
- Fast installation



Spir-O-line CC

General

Spir-O-line CC is an air dielectric coaxial cable constructed of high conductivity copper formed and corrugated to provide a cable which makes field installation fairly easy.

Spir-O-line CC coaxial cable is unique in construction, employing six high density polyethylene tubes which are in tangential contact with the inner conductor. The outer conductor is formed and corrugated, thus compressing the six polyethylene tubes to a predetermined dimension. The corrugation of the outer conductor and compression of the polyethylene tubes locks all compo-

nents together. This mechanical bond of all components prevents connector disconnects when the cable is used in long lengths and in a vertical position.

The cable is normally supplied with a protective black polyethylene jacket in continuous lengths up to 2000 feet. Longer lengths are available on request. It is available in 1/2" (13.8mm), 7/8" (24mm), and 1 5/8" (46.1mm) sizes.

Mechanical and Electrical Specifications

Because of the mechanical construction, VSWR peaks and periodicity are not a problem as is the case in a helical-dielectric support.

MECHANICAL AND ELECTRICAL SPECIFICATIONS

Cat. No.	Ohms	Nominal size in. (mm)	Effective dielectric constant	Velocity %	Outer conductor in. (mm)	Inner conductor in. (mm)	Jacket thickness in. (mm)	Minimum bending radius in. (mm)	Shipping length ft. (meters)**	Maximum pulling tension lbs. (Kg)
31-590	50	1/2 (13.8)	1.36	85.5	.545 (13.8)	.183 (4.64)	.040 (1.01)	5 (127)	2000 (609.6)	270 (123)
31-890	50	7/8 (24)	1.36	85.5	.945 (24)	.320 (8.12)	.040 (1.01)	10 (254)	2000 (609.6)	770 (349)
31-1690	50	1 5/8 (46.1)	1.34	86.5	1.815 (46.1)	.635 (16.1)	.060 (1.52)	20 (508)	2000 (609.6)	1850 (839)

**Note: Bulk (2,000 feet or more) tolerance ± 10 percent. Exact reel length plus extra charge.

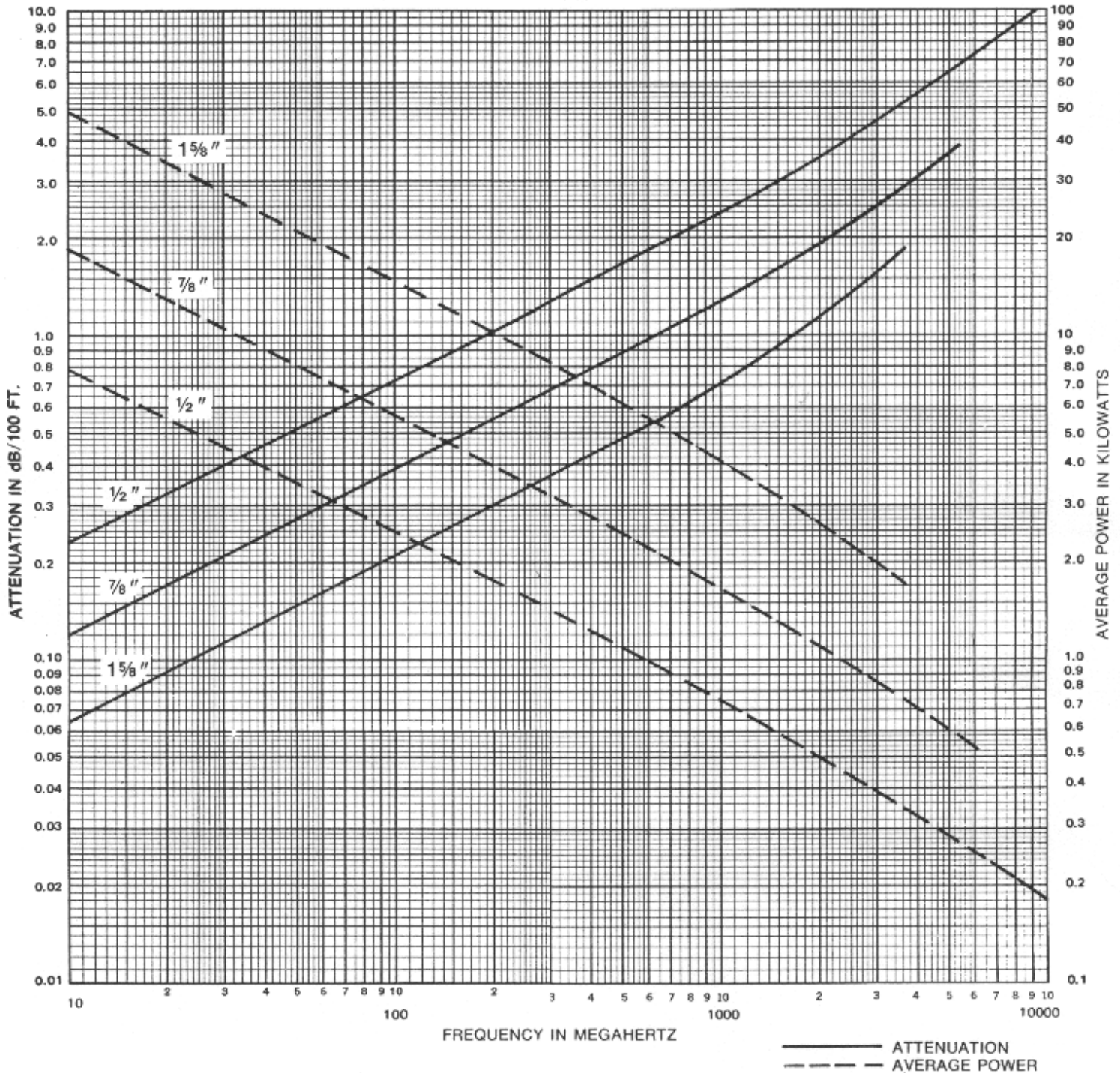
SHIPPING INFORMATION

Cat. No.	Nominal size in. (mm)	lbs./ft.	lgth. ft.	Type package	Shipping dim. inches	Tare weight pounds	
31-590	1/2 (12.7)	0.16	0-250	Carton	31x31x5	6	
			251-1250	Reel	34x22	Space Lag 57	Full Lag 69
			1251-5000	Reel	52x40	252	310
31-890	7/8 (22.2)	0.50	0-250	Carton	44x44x6	8	
			251-2000	Reel	52x40	Space Lag 252	Full Lag 310
			2001-5000	Reel	76x42	447	534
31-1690	1 5/8 (42.9)	1.19	0-150	Carton	60x60x9	16	
			151-850	Reel	76x42	Space Lag 447	Full Lag 534
			851-2500	Reel*	88x64	1212	1332

*Returnable reel; all others are disposable.
Conversion: Pounds to kilograms multiply 0.453.

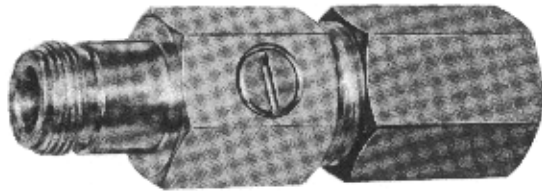
HI-DENSITY POLYETHYLENE INSULATION 50 OHM VSWR 1.1:1.0

AVERAGE POWER RATING IN AIR AT 40°C.



Power Rating — Maximum operating inner conductor temperature 85°C.
Attenuation — Based on 20°C ambient, other than 20°C. See page 74.

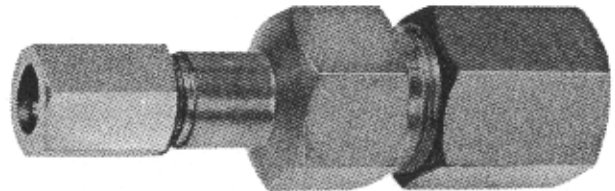
Spir-O-lok CC Connectors for Spir-O-line CC Cables are made of brass to be compatible with the copper sheath of the cable. Features of the Spir-O-lok Connector are outlined on page 49.



SPIR-O-LINE CC TO TYPE N FEMALE

Gas Inlet Port 1/8" IPS
Connects to UG-21/U

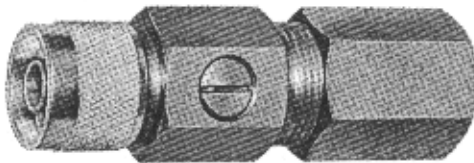
Cat. No.	Cable Size	Weight
75-590	1/2 in.	6 oz.
75-890	7/8 in.	1 lb.
75-1690	1 1/8 in.	3 lb.



SPIR-O-LINE CC TO SPIR-O-LINE CC REDUCER

No Gas Inlet Port

Cat. No.	Cable Size	Weight
71-890	7/8 - 1/2 in.	1 lb.
71-1690	1 1/8 - 7/8 in.	3 lb. 5 oz.



SPIR-O-LINE CC TO TYPE N MALE

Gas Inlet Port 1/8" IPS
Connects to UG-23/U

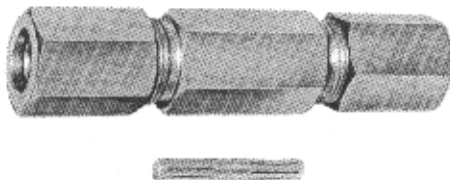
Cat. No.	Cable Size	Weight
76-590	1/2 in.	7.5 oz.
76-890	7/8 in.	1 lb. 2 oz.
76-1690	1 1/8 in.	3 lb.



END SEALS

Gas Inlet Port 1/8" IPS
Bulkhead

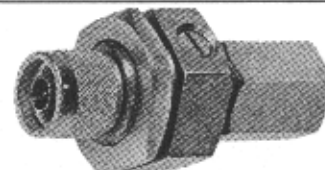
Cat. No.	Cable Size	Weight
95-590	1/2 in.	12 oz.
95-890	7/8 in.	1 lb. 9 oz.
95-1690	1 1/8 in.	5 lb. 4 oz.



SPIR-O-LINE CC TO SPIR-O-LINE COUPLING

No Gas Inlet Port

Cat. No.	Cable Size	Weight
79-590	1/2 in.	9 oz.
79-890	7/8 in.	1 lb. 5 oz.
79-1690	1 1/8 in.	4 lb. 7 oz.

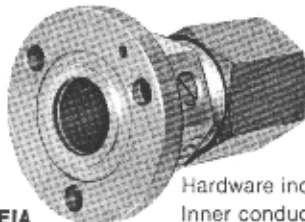


SPIR-O-LINE CC TO TYPE N MALE BULKHEAD

Gas Inlet Port 1/8" IPS

Connects to UG-23/U

Cat. No.	Cable Size	Weight
96-590	1/2 in.	10.5 oz.
96-890	7/8 in.	1 lb. 9 oz.
96-1690	1 1/8 in.	3 lb. 4 oz.

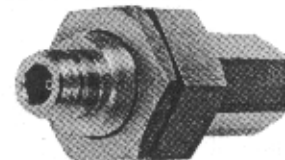


SPIR-O-LINE CC TO EIA

Gas Inlet Port 1/8" IPS

Hardware included.
Inner conductor male
bullet ordered separately.

Cat. No.	Cable Size	Weight
85-890	7/8 in. to 7/8 in. (EIA) Female	1 lb. 3 oz.
85-1690	1 1/8 in. to 7/8 in. (EIA) Female	3 lb. 6 oz.
124-1690	1 1/8 in. to 1 1/8 in. (EIA) Female	4 lb. 7 oz.



SPIR-O-LINE CC TO TYPE N FEMALE BULKHEAD

Gas Inlet Port 1/8" IPS

Connects to UG-21/U

Cat. No.	Cable Size	Weight
97-590	1/2 in.	9.6 oz.
97-890	7/8 in.	1 lb. 8 oz.
97-1690	1 1/8 in.	3 lb. 6 oz.