

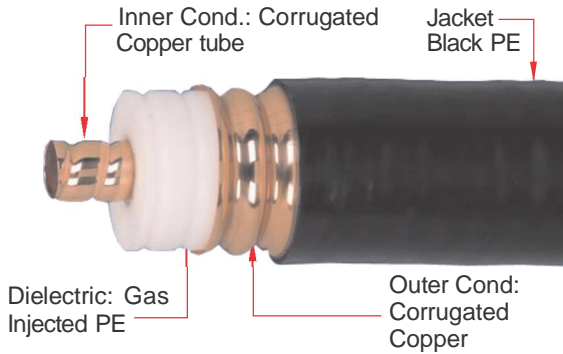
1-5/8" Hi-Power Coaxial Cable Sets for Nuclear & Hi-Energy use

4.5KW CW @700MHz, 6KW CW @ 350MHz, uses High Quality 1-5/8" Connectors

available on rupee payment

Power Handling
 4.5KW CW @ 700 MHz
 6KW CW @ 350 MHz

1-5/8inch RF Cable Sets from us have been designed for EXTREMELY HIGH POWER RF transmission in frequencies upto 2500 MHz. Intended for hi-energy applications in nuclear, particle physics and similar applications



APPLICATIONS

- Nuclear applications
- Particle Physics research applications
- Any application that needs extremely high power RF coaxial cables

Mechanical Specifications	
Cable weight	1.13 kg/m
Max. Pull Strength	250 daN
Min. bending radius (single)	200 mm
Min. bending radius (repeated)	400 mm
Max. clamp spacing	1.5 m

Electrical Specifications	
Impedance	50 ± 1 Ω
Relative velocity of propagation	89%
Capacitance	75 pF/m
Inductance	0.19 uH/m
Max. Operating frequency	2.7 GHz
Peak power rating	302 KW
RF peak voltage	5500 Volts
Insulation Resistance	>5000 MOhm.Km
Inner conductor DC-resistance	1.37 Ω/1000 m
Outer conductor DC-resistance	0.39 Ω/1000 m

Description	Material
Inner Conductor	Corrugated Copper Ø 17.7 mm
Dielectric	Gas Injected PE, Ø 43 mm
Outer Conductor	Corrugated Copper, Ø 46.6 mm
Jacket	Black PE, Ø 50 mm

Environmental Specifications	
Installation temperature	-40°C to +60°C
Storage temperature	-70°C to +85°C
Operation temperature	-55°C to +85°C

Attenuation and Power Handling Data													
Frequency [MHz]	100	200	300	400	450	800	960	1000	1500	1800	2000	2200	2500
Attenuation**[dB/100m]	0.65	0.93	1.16	1.36	1.46	2.01	2.23	2.29	2.90	3.23	3.45	3.65	3.95
Mean power [kW]	15.68	10.84	8.70	7.43	6.96	5.03	4.53	4.43	3.49	3.13	2.94	2.77	2.57

** The attenuation mentioned above is at 20°C

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Ordering Codes Description

1-5/8 - □ □ - □ □ (□ /) - □ □ (□ /) - □
 L L **1 2 3** **1 2 3 U**

L L	Length	0.5 = 0.5 ; 1 = 1.0 ; 2 = 2.0
1	Connector Series	EIA 1-5/8 = 1-5/8
2	Male/Female Designator	M = Male ; F = Female
3	Orientation of Connector	ST = Straight ; RA = Right Angle
U	Unit of Length	M = Meter ; F = Feet ; I = Inch

1 meter cable set with 1-5/8 on both sides = 1-5/8-1.0-1-5/8(M/ST)-1-5/8(M/ST)-M

Cable Set Ordering Codes

Part Number	Conn 1	Conn 2	Length
1-5/8 (Male) Straight Connector on one end & 1-5/8 (Male) Straight Connector on other end			
1-5/8-1.0-1-5/8(M/ST)-1-5/8(M/ST)-M	1-5/8 EIA	1-5/8 EIA	1m
1-5/8-2.0-1-5/8(M/ST)-1-5/8(M/ST)-M	1-5/8 EIA	1-5/8 EIA	2m
1-5/8-5.0-1-5/8(M/ST)-1-5/8(M/ST)-M	1-5/8 EIA	1-5/8 EIA	5m
1-5/8-10.0-1-5/8(M/ST)-1-5/8(M/ST)-M	1-5/8 EIA	1-5/8 EIA	10m
1-5/8-30.0-1-5/8(M/ST)-1-5/8(M/ST)-M	1-5/8 EIA	1-5/8 EIA	30m
1-5/8-50.0-1-5/8(M/ST)-1-5/8(M/ST)-M	1-5/8 EIA	1-5/8 EIA	50m

1-5/8" Connector Specifications



Specifications	1-5/8" Connector
Center Conductor	BeCu, Silver Plated
Outer Conductor	Brass, Silver Plated
Attachment Method (inner)	Spring Finger
Nominal Impedance	50 Ω
Insulators	PTFE
Standards	EIA RS-225, MIL-F-24044

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