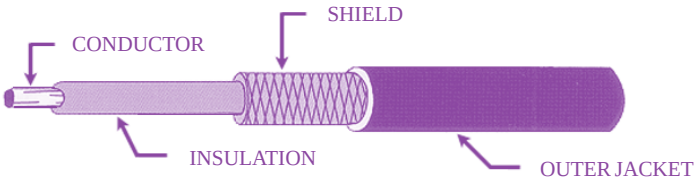
High Voltage Coaxial/Shielded Cable



High Voltage Coaxial/ Shielded Cable

The coaxial and shielded cables shown below have been used in both military and industrial high voltage applications including Radar, ECM systems, power supplies and instrumentation. Many of the cables have controlled impedance. Figures for inductance and loop resistance (shield coupled to center conductor) are available upon request.

167-2669 and 178-8793 cables have controlled impedance, inductance and capacitance for fast response times and are used extensively to connect Exploding Bridgewire Detonators (EBW) to a Capacitor Discharge Unit (CDU).

Cable 178-5065 has foam insulation, giving lower capacitance and higher impedance. It has been used in cockpit displays.

Reynolds connectors are available for use with all cable types shown to complete your high voltage interconnection requirements.

High Voltage Coaxial/ Shielded Cable Attributes

OPERATING VOLTAGE (KVDC)	AWG	STRANDS	PLATING	CONDUCTOR Ø IN.	INSULATION MATERIAL & Ø IN.	SHIELDING AWG PLTG Ø IN.	JACKET MATERIAL Ø IN.	IMPED-ANCE OHMS	ATTEN. dB/100 FT @ 400 MHZ	CAP. pF/FT (Nom.) @ 1k HZ	PART NUMBER
600 v	30	7/38	SPC	.012	FEP .072	38 SPC .089	FEP .103	95	N/A	13.5	178-5065
18	26	19/38	SPC	.019	FEP .050	36 SPC .075	FEP .095	46	25	33.7	167-2896 [1]
20	16	19/29	TPC	.059	PE .118	36 TPC .150	PE .195	31	16	48	167-2669 [2]
22	22	19/34	SPC	.031	FEP .080	36 SPC .100	FEP .125	43	10.6	31	167-9346 [3]
25	22	19/34	SPC	.031	FEP .100	36 SPC .120	FEP .145	50	N/A	29.3	167-8726 [4]
40	20	19/32	TPC	.039	FEP .150	36 TPC .180	FEP .220	N/A	N/A	26	167-9785
40	20	19/32	SPC	.039	FEP .150	2 X 36 SPC .200	FEP .230	50	12.2	26	167-8556

[1] Type “L” cable
[2] Type “C” cable. High temperature version (up to 260° C) available on request
[3] Type .080 “L” Cable
[4] Type .100 “L” Cable

Color: Type “L” cable jacket is white. Type “C” cable jacket is red.
All other cable jackets are black.
Ordering: Use Part Number and specify length in feet.

Note: Pre-conditioning of FEP wire or cable is recommended because FEP insulation will shrink when exposed to temperature cycling. Pre-conditioning should be conducted in an air circulating oven at 204°C (400°F) for one hour. Pre-conditioning should only be performed on cut lengths prior to stripping and any termination procedure. *No attempt should be made to condition wire or cable in bulk form or while spooled.*