



## CABLE SPECIFICATION CHART

ESM CABLE CODE	CABLE DESCRIPTION	CABLE OD	Impedance (Ohms)	Jacket Material	Center Conductor Material	Center Conductor Type	Center Conductor Diameter	Dielectric Material	MFG.	MFG P/N	ESM CABLE CODE	Suggested Max Freq.	Insertion Loss (dB/100ft)						Power Handling (Max. CW)					
													1 GHz	5 GHz	10 GHz	20 GHz	26.5 GHz	40 GHz	1 GHz	5 GHz	10 GHz	20 GHz	26.5 GHz	40 GHz
TB047	Conformable M17/151 Type	0.047"	50	Tin Filled	SPCW	Solid	0.011	PTFE	Belden	1674A	TB047	20 GHz <sup>1</sup>	37.00	90.00	131.00	192.00		31	13	9.3	6.5			
TB047C	Conformable M17/151 Type Non-Mag	0.047"	50	Tin Filled	SPC	Solid	0.0113	PTFE	Belden	1674B	TB047C	20 GHz <sup>1</sup>	37.00	90.00	131.00	192.00		31	13	9.3	6.5			
TB086	Conformable RG405 Type	0.086"	50	Tin Filled	SPCW	Solid	0.0201	PTFE	Belden	1671A	TB086	20 GHz <sup>1</sup>	22.50	55.00	82.00	120.00		119	46	30	20			
TBJ086	Conformable RG405 Type Jacketed	0.127"	50	PVC	SPCW	Solid	0.0201	PTFE	Belden	1671J	TBJ086	20 GHz <sup>1</sup>	22.50	55.00	82.00	120.00		119	46	30	20			
TB141	Conformable RG402 Type	0.141"	50	Tin Filled	SPCW	Solid	0.0360	PTFE	Belden	1673A	TB141	20 GHz <sup>1</sup>	12.00	31.00	47.00	70.00		401	157	105	70			
TBJ141	Conformable RG402 Type Jacketed	0.178"	50	PVC	SPCW	Solid	0.0360	PTFE	Belden	1673J	TBJ141	20 GHz <sup>1</sup>	12.00	31.00	47.00	70.00		401	157	105	70			
SA086	Aluminum Semi-Rigid Tin Plated	0.086"	50	Tin Plated	SPCW	Solid	0.0201	PTFE		M17/133-00013	SA086	20 GHz <sup>1</sup>	22.00	50.00	80.00	130.00		120	52	35	20			
SA141	Aluminum Semi-Rigid Tin Plated	0.141"	50	Tin Plated	SPCW	Solid	0.0201	PTFE		M17/130-00009	SA141	20 GHz <sup>1</sup>	12.00	29.00	45.00	70.00		300	120	80	50			
SR047	Copper Semi-Rigid Tin Plated	0.047"	50	Tin Plated	SPCW	Solid	0.0113	PTFE		M17/151-00002	SR047	20 GHz <sup>1</sup>	40.00	90.00	130.00	190.00		32	13	9	6.5			
SR047C	Copper Semi-Rigid TP Non-Magnetic	0.047"	50	Tin Plated	SPC	Solid	0.0113	PTFE	EZ-FORM	810505	SR047C	20 GHz <sup>1</sup>	40.00	90.00	130.00	190.00		32	13	9	6.5			
SR086	Copper Semi-Rigid Tin Plated	0.086"	50	Tin Plated	SPCW	Solid	0.0201	PTFE		M17/133-00001	SR086	20 GHz <sup>1</sup>	22.00	50.00	80.00	130.00		130	54	35	20			
SR086C	Copper Semi-Rigid TP Non-Magnetic	0.086"	50	Tin Plated	SPC	Solid	0.0201	PTFE		M17/133-00003	SR086C	20 GHz <sup>1</sup>	22.00	50.00	80.00	130.00		130	54	35	20			
SR118	Copper Semi-Rigid Silver Plated	0.118"	50	Silver Plated	SPC	Solid	0.0315	LD PTFE	Storm	421-069-3	SR118	20 GHz <sup>1</sup>	16.00	28.00	40.00	58.00	68.00	85.00						
SR141	Copper Semi-Rigid Tin Plated	0.141"	50	Tin Plated	SPCW	Solid	0.0360	PTFE		M17/130-00001	SR141	20 GHz <sup>1</sup>	12.00	29.00	45.00	70.00		450	180	120	70			
SR141C	Copper Semi-Rigid TP Non-Magnetic	0.141"	50	Tin Plated	SPC	Solid	0.0360	PTFE	EZ-FORM	810050	SR141C	20 GHz <sup>1</sup>	12.00	29.00	45.00	70.00		450	180	120	70			
SR141L	Copper Semi-Rigid Low Loss 0.036CC	0.141"	50	Tin Plated	SPC	Solid	0.0360	LD PTFE	Storm	421-671-3	SR141L	20 GHz <sup>1</sup>	16.00	28.00	40.00	58.00	68.00	85.00						
FL086	Flexible RG405 Type (BLUE)	0.104"	50	FEP	SPCW	Solid	0.0201	PTFE	Harbour	SS-405	FL086	20 GHz <sup>1</sup>	23.00	52.00	80.00	130.00	140.00	175.00	119	46	30	20	17	10
FL141	Flexible RG402 Type (BLUE)	0.163"	50	FEP	SPCW	Solid	0.0360	PTFE	Harbour	SS-402	FL141	20 GHz <sup>1</sup>	13.00	30.00	45.00	70.00	90.00	115.00	290	157	72	45	30	20
TF141	Flexible RG402 Type Ruggedized For Test	0.163"	50	FEP	SPCW	Solid	0.0360	PTFE	Harbour	SS-402	TF141	20 GHz <sup>1</sup>	13.00	30.00	45.00	70.00	90.00	115.00	290	157	72	45	30	20
EW141	Flexible Low Loss	0.153"	50	FEP	SPC	Solid	0.0360	LD PTFE	Semflex	SW150	EW141	26 GHz	13.00	30.00	43.00	63.00		1000	400	300	160			
EW180	Flexible Low Loss	0.196"	50	FEP	SPC	Solid	0.0510	LD PTFE	Semflex	SW180	EW180	26 GHz	9.10	21.30	31.20	47.00		1730	650	500	290			
EW200	Flexible Low Loss	0.200"	50	FEP	SPC	Solid	0.0510	LD PTFE	Semflex	RH200	EW200	26 GHz	7.42	17.50	26.00	38.40	46.00	58.10	2100	1000	600	350		
EW292	Flexible Low Loss	0.292"	50	FEP	SPC	Solid	0.0890	LD PTFE	Semflex	LA290	EW292	18 GHz	4.44	10.41	15.26	21.30		4700	2000	1300	1000			
													500 MHz	1 GHz	2.5 GHz	6 GHz	10 GHz		500 MHz	1 GHz	2.5 GHz	6 GHz	10 GHz	
RG142	Flexible Double Shield	0.195"	50	FEP	SPCW	Solid	0.0370	PTFE		M17/60-RG142	RG142	12.4 GHz	9.00	13.00	22.00	36.00	49.00		700	480	290	170	120	
RG178	Flexible Single Shield	0.071"	50	FEP	SPCW	Stranded	0.0120	PTFE		M17/169-00001	RG178	3 GHz	32.00	45.00	72.00	115.00	150.00		120	80	50	30	17	
RG179	Flexible Single Shield	0.100"	75	FEP	SPCW	Stranded	0.0120	PTFE		M17/94-RG179	RG179	1 GHz	17.00	24.00	N/A	N/A	N/A		110	66	N/A	N/A	N/A	
RG188	Flexible Single Shield	0.100"	50	PTFE	SPCW	Stranded	0.0201	PTFE		RG188A/U	RG188	3 GHz	18.00	27.00	43.00	69.00	91.00		270	180	110	70	50	
RG316	Flexible Single Shield	0.098"	50	FEP	SPCW	Stranded	0.0201	PTFE		M17/113-RG316	RG316	3 GHz	19.00	27.00	43.00	69.00	91.00		270	180	110	70	50	
RD316	Flexible Double Shielded	0.114"	50	FEP	SPCW	Stranded	0.0201	PTFE		M17/152-00001	RD316	12.4 GHz	19.00	27.00	43.00	69.00	91.00		270	180	110	70	50	
RG400	Flexible Double Shielded	0.200"	50	FEP	SPCW	Stranded	0.0380	PTFE		M17/128-RG400	RG400	12.4 GHz	9.00	13.00	22.00	36.00	49.00		700	480	290	170	120	
RG393	Flexible Double Shielded	0.390"	50	FEP	SPCW	Stranded	0.0940	PTFE		M17/127-RG393	RG393	11 GHz	5.00	7.50	13.00	22.00	31.50		1850	1240	710	400	280	
RG58	Flexible Single Shield	0.195"	50	PVC-NC	TC	Stranded	0.0360	PE		M17/155-00001	RG58	1 GHz	11.00	16.00	26.00	42.00	58.00		120	80	50	30	20	
RG59	Flexible Single Shield	0.242"	75	PVC-NC	BC	Solid	0.0230	PE		M17/29-RG59	RG59	1 GHz	8.00	12.00	N/A	N/A	N/A		120	80				
RG214	Flexible Double Shielded	0.425"	50	PVC-NC	SPC	Stranded	0.0890	PE		M17/164-00001	RG214	11 GHz	5.50	8.00	14.00	24.00	34.00		260	170	100	60	40	
RG223	Flexible Double Shielded	0.212"	50	PVC-NC	SPC	Solid	0.0360	PE		M17/84-RG223	RG223	12.4 GHz	11.00	16.00	26.00	42.00	58.00		120	80	50	30	20	
LMR200	Flexible, Low Loss Communications	0.200"	50	PE	BC	Solid	0.0440	FPE	Times	LMR200	LMR200	6 GHz	7.35	10.50	16.90	27.00	N/A		240	170	100	70		
LMR240	Flexible, Low Loss Communications	0.240"	50	PE	BC	Solid	0.0560	FPE	Times	LMR240	LMR240	6 GHz	5.60	8.00	13.00	21.00	N/A		360	250	150	90		
LMR240U	Flexible, Low Loss Communications	0.240"	50	TPE	BC	Stranded	0.0560	FPE	Times	LMR240-UF	LMR240U	6 GHz	6.70	9.60	16.00	25.00	N/A		300	210	130	80		
LMR400	Flexible, Low Loss Communications	0.405"	50	PE	BCCAL	Solid	0.1080	FPE	Times	LMR400	LMR400	6 GHz	2.90	4.20	6.70	11.10	N/A		790	540	330	200		
LMR400U	Flexible, Low Loss Communications	0.405"	50	TPE	BC	Stranded	0.1080	FPE	Times	LMR400-UF	LMR400U	6 GHz	3.45	4.96	8.12	13.30	N/A		650	450	280	170		

**Footnotes:**

1. Manufacturer's suggested maximum frequency, can be used at higher frequencies when properly configured.

**Acronyms:**

- BC Bare Copper
- BCCAL Bare Copper Clad Aluminum
- SPC Silver Plated Copper
- SPCW Silver Plated Copper Steel Wire
- TC Tinned Copper
- PTFE Teflon
- LD PTFE Low Density Teflon
- FPE Foamed Polyethylene
- PE Solid Polyethylene