

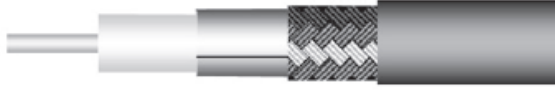
LOW LOSS FLEXIBLE CABLE LMR195

(CABLE GROUP 0.195/50)

Application:

This LMR195 type cable can be considered as an alternative to equivalent diameter corrugated cables.

The foam dielectric provides excellent loss and low return loss levels. The double screen construction (Aluminium foil + tinned copper braid) offers a high level of shielding as well as low leakage. This cable will be advised for feeder and jumper assemblies in cellular networks as well as applications requiring easy routing.



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CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Center conductor	Solid copper	0.94	0.037
Dielectric	Foam PE (1)	2.79	0.110
Inner shield	AL (3) foil	2.95	0.116
Outer shield	TC (3) braid	3.53	0.39
Jacket black	Black PE(1)	4.95	0.195

- (1) PE = Polyethylene
(2) AL = Aluminium
(3) TC = Tinned Copper

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	12.5 mm	0.49 inch
weight	28 g / m	0.021 lbs / ft

ENVIRONMENTAL CHARACTERISTICS		
operating temperature range	-40 / +85 °C	-40 / +185 °F
fire resistance	no	
halogen free	no	

ELECTRICAL CHARACTERISTICS	
characteristic impedance	50Ω ± 2Ω
operating frequency range	DC – 6 GHz
shielding effectiveness	>90 dB
voltage withstanding	1 000 V rms
peak power	2.5 kW
capacitance	80.3 pF / m 24.5 pF / ft
velocity of propagation	83 % (4.0 ns / m)

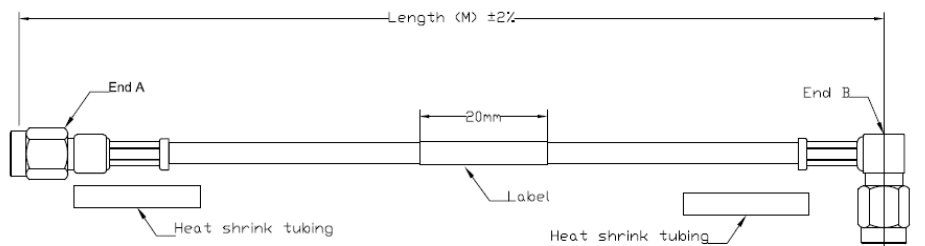
Note: typical VSWR for the cable assembly
VSWR=1.2:1 @3GHz

FREQUENCY / ATTENUATION MAX POWER (sea level / 25 °C)			
GHz	dB/ m	dB / ft	Watts
0.1	0.12	0.03	557
0.5	0.25	0.07	238
1.0	0.36	0.11	169
1.5	0.44	0.14	138
2.0	0.51	0.16	118
2.5	0.57	0.18	108
3.0	0.64	0.19	98
4.0	0.74	0.24	78
5.0	0.83	0.26	67
6.0	0.93	0.30	63
attenuation calculation (dB/m)	(0.336 x √f GHz) + (0.011 x f GHz)		

Note: typical attenuation for a couple of connectors
(dB) = 0.045 x √f (GHz)

CUSTOM CABLE ASSEMBLY REQUIREMENT

- TYPE COAX CABLE
- CONNECTOR ON END A
- CONNECTOR ON END B
- LENGTH: Standard = overall length (or please specify if length between references planes)
 - length tolerance (standard = ±2%)



End A
SMA (Straight)
Male

End B
SMA (Right Angle)
Male

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Custom Cable Assemblies



[N male to N male
LMR195-xx.x\(M\)](#)



[N male to RP-SMA male
LMR195-xx.x\(M\)](#)



[N male to SMA male
LMR195-xx.x\(M\)](#)



[N male to RA-SMA male
LMR195-xx.x\(M\)](#)



[N female to SMA male
LMR195-xx.x\(M\)](#)



[N female to SMA male-RA
LMR195-xx.x\(M\)](#)



[N male to TNC male
LMR195-xx.x\(M\)](#)



[N male to RP-TNC male
LMR195-xx.x\(M\)](#)



[N female to RP-SMA male
LMR195-xx.x\(M\)](#)



[RP-SMA male to RP-SMA
female LMR195-xx.x\(M\)](#)



[SMA male to SMA male
LMR195-xx.x\(M\)](#)



[SMA male to SMA female
LMR195-xx.x\(M\)](#)



[BNC male to BNC male
LMR195-xx.x\(M\)](#)



[TNC male to TNC male
LMR195-xx.x\(M\)](#)



[TNC male to SMA male
LMR195-xx.x\(M\)](#)



[RP-TNC male to RP-TNC
male LMR195-xx.x\(M\)](#)

CONNECTOR SELECTION (FOR LMR195 CABLE)

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SKU	Connector Type Series	Interface	Frequency (GHz)	Impedance (Ω)	Classic level (Mil Spec)
01-0366	N	Male Straight, Crimp	6	50	Commercial
01-0314	N	Male Right Angle, crimp	6	50	Commercial
01-0355	N	Male Straight, Clamp	6	50	Commercial
01-0338	N	Male straight, Reversed polar,	3	50	Commercial
01-0336	N	Female Straight, Crimp,	6	50	Commercial
01-0335	N	Female, Bulkhead, Straight, Crimp	6	50	Commercial
01-0405	SMA	Male Straight, Crimp	11	50	Commercial
01-0407	SMA	Female Straight, Crimp,	11	50	Commercial
01-0416	SMA	Male Right Angle, crimp	6	50	Commercial
01-0430	SMA	Male straight, Reversed polar,	6	50	Commercial
01-0433	SMA	Female straight, Reversed polar,	6	50	Commercial
01-0506	TNC	Male Straight, Crimp	6	50	Commercial
01-0517	TNC	Female straight, crimp,	6	50	Commercial
01-0202	BNC	Male Straight, Crimp	4	50	Commercial
01-0215	BNC	Male Right Angle, crimp	4	50	Commercial
01-0235	BNC	Female, Bulkhead, Straight, Crimp	4	50	Commercial
01-0830	FME	Male Straight, Crimp	4	50	Commercial
01-0831	FME	Female straight, crimp,	4	50	Commercial
01-0823	SMB	Male Right Angle, crimp	6	50	Commercial
01-0609	UHF	Male Right Angle, crimp	2	50	Commercial
01-0607	UHF	Female straight, crimp,	2	50	Commercial