

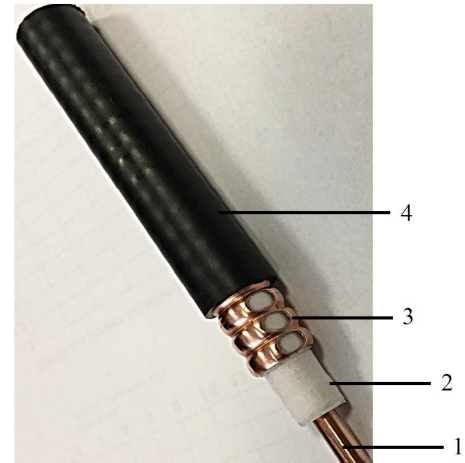
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REV. N. 01

CMC 50S-12 CMC 50S-12-B (HFFR)

RoHS compliant

- 1: Inner Conductor 2: Insulation
3: Outer conductor 4: Jacket



Construction		
Inner Conductor	Material	Copper Clad Aluminum
	Diameter, mm	4.80
Insulation	Material	Physically foamed PE
	Diameter, mm	12.20
Outer conductor	Material	Corrugated copper tube with single row milled slots
	Diameter, mm	13.80
Jacket	Material	PE or fire retardant PE (B)
	Diameter, mm	16.00

Mechanical properties		
Single bending radius mm		70
Tensile force, N		2550
Recommended temperature °C	Store	-30~+80
	Installation	-25~+60
	Operation	-30~+80

Electrical properties	
Impedance, Ω	50 ± 2
Capacitance, pF/m	76
Propagation velocity, %	88
Insulation dielectric strength, KVDC	6.0
Jacket spark test voltage, KVAC	8.0
Insulation resistance, MΩ • km	>5 × 10 ³
V.S.W.R.	≤ 1.3 test in operations frequency range

Notes:

Attenuation and coupling loss values are given with tolerance of 5% and ± 10dB, respectively.

Attenuation	
Frequency MHz	Nom. attenuation @20°C, dB/100m
70	2.0
150	2.8
450	5.0
900	7.3
1800	10.8
2100	11.7
2400	12.7

Coupling loss	
Frequency MHz	Coupling loss 50% / 95% dB
70	63/69
150	68/74
450	76/82
900	78/83
1800	79/86
2100	80/88
2400	81/91

Attenuation and coupling loss specifications are measured by the free space method according to IEC 61196.4-2004