12C-HFA

STANDARD CONSTRUCTION

· 0.109 in. (2.77mm) copper clad aluminum or copper center conductor.
· Gas expanded polyethylene dielectric.
· Continuous aluminum outer conductor
· Outer shield of 34 AWG bare aluminum braid wire.
· Flame retardant polyethylene(PE) jacket.
· Nominal O.D. 0.560 in.(14.22mm).

PHYSICAL DIMENSIONS

Component	Inches	mm
Nominal Center Conductor Diameter	0.109	2.77
Nominal Diameter Over Dielectric	0.450	11.43
Nominal Diameter Over Outer Conductor	0.500	12.70
Nominal Outer Conductor Thickness	0.025	0.64
Nominal Diameter Over Jacket	0.560	14.22
Nominal Jacket Wall Thickness	0.030	0.76
Messenger Versions		
Diameter of Steel Messenger	0.109	2.77

ELECTRICAL PROPERTIES

IMPEDANCE	75 OHM
IVELOCITY OF PROPAGATION	87%
Capacitance	15.3± 1.0 pf/ft 50±3.0 nf/km
Shielding Effectiveness	>100dB

MECHANICAL CHARACTERISTICS

Minimum Bending Radius		6.0"	15.2cm
Maximum Pulling Tension	300 lbs.	136 kgf	
Minimum Breaking Strength of Messenger	1800 lbs.	816 kgf	

감쇄량 (20℃) (Attenuation)

FREQUENCY (MHz)	dB/100M	dB/100M
5	1.71	0.52
55	5.81	1.77
200	11.42	3.48
250	12.93	3.94
300	14.11	4.30
350	15.39	4.69
400	16.47	5.02
450	17.55	5.35
500	18.64	5.68
550	19.59	5.97
600	20.57	6.27
750	23.26	7.09
1000	27.13	8.27

Mechanical D.C Resistance @68oF(20oC)

Copper Clad

Inner Conductor	1.35 ohms/1000ft.	4.40 ohms/km
Out Conductor	0.37 ohms/1000ft.	1.24 ohms/km
Loop	1.72 ohms/1000ft.	5.64 ohms/km

Solid Clad

Inner Conductor	0.83 ohms/1000ft.	2.72 ohms/km
Out Conductor	0.37 ohms/1000ft.	1.24 ohms/km
Loop	1.20 ohms/1000ft.	3.96 ohms/km

*Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1%/oF (0.18%/℃)
APPLICABLE STANDARDS
UL(CMR,CATVR,CATV,CL2)/VDE/TL9000/ISO14001)
※ Compliant with European Directive 2002/95/EC(RoHS)
※ Above information is just for the purpose of your reference, therefore pls. ask to our sales dept. if you want to get more detail.