HFAC-12DP is a 1/2 inch, low loss 50 Ohm Plenum Rated RF coaxial cable that is installed in the plenum space of a building as part of an in-building DAS system to eliminate dead zones and spotty coverage. Designed with a copper clad aluminum center conductor, air dielectric center structure, helically corrugated aluminum tube outer conductor, and Plenum Rated outer jacket, the HFAC-12DP is a high performing cable with low loss attenuation.

## APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES	BENEFITS
Low attenuation	Highly efficient signal transfer
Low passive intermodulation	<ul> <li>Outperforms the industry requirements for low PIM</li> </ul>
High-quality, white PVDF jacket	<ul> <li>Flame retardant and low smoke; blends with background for optimal building aesthetics</li> </ul>
• ETL Certified CMP (UL® 444)	<ul> <li>Safe to use throughout a building including air carrying plenum space</li> </ul>
<ul> <li>Full range of easy to install connectors and an automated cable prep tool</li> </ul>	<ul> <li>Shortens installation time and expenses</li> </ul>
RELATED PRODUCTS	

- Connectors CHFAP-12xx
- Cable prep tool T-LHFA12DP

## AND NUMBERS AND DEVSICAL CHARACTERISTIC

	hinar
PVDF Jacket	
Corrugated Aluminum Tube Conductor	
Copper-Clad Aluminum Conductor	
Air Dielectric	
Polyethylene Dielectric Spline	

SPECIFICATIONS	
Inner Conductor Material	Copper-clad aluminum
Dielectric Material	Polyethylene
Outer Conductor Material	Corrugated aluminum tube
Jacket Material	White, PVDF
Recommended Operating Temperature °F (°C)	-4 to +167 (-20 to +75)

FART NOWIDERS AND FITTSICAE CHARACTERISTICS									
	Cable Size		Nomina in	l Diameter (mm)		Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
HFAC-12DP	1⁄2 (12)	0.19 (4.8)	0.47 (12.0)	0.54 (13.8)	0.58 (14.8)	5.91 (150)	111 (166)	39 (0.7)	174 (79)

## ELECTRICAL SPECIFICATIONS

		Conductor D Ohms/kft (	C Resistance Ohms/km)	Minimum Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
D. I.N. J.	Cable Size		0.1	Resistance	for 1 minute	Propagation	Rating	Frequency	Impedance	Return Loss
Part Number	in (mm)	Inner	Outer	m\2 km	DC Potential - volts	%0	KVV	GHZ	Unms	ab
HFAC-12DP	1/2 (12)	0.50 (1.6)	0.67 (2.2)	10,000	4,000	88	40	8.8	50 ± 2	19

Frequency MHz	Nominal Attenuation* dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW				
30	0.40 (1.32)	4.46				
100	0.73 (2.41)	2.41				
150	0.90 (2.97)	1.95				
450	1.59 (5.22)	1.10				
824	2.19 (7.19)	0.79				
890	2.28 (7.49)	0.76				
960	2.38 (7.81)	0.73				
1,000	2.43 (7.98)	0.71				
1,700	3.25 (10.66)	0.53				
1,800	3.36 (11.03)	0.52				
2,000	3.63 (11.90)	0.49				
2,400	3.93 (12.90)	0.44				
3,000	4.44 (14.57)	0.39				
*The attenuation may rise by $0.2\%/9$ C with rising temperature						

Maximum attenuation shall not exceed 110% of nominal value. Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.

Frequency MHz	VSWR
806-960	<u>≤</u> 1.25
1,700-2,155	< 1.25

