WILLIAMS FIRE SPRINKLER COMPANY, INC.



MAILING ADDRESS

P.O. Box 1048 - Williamston, N.C. 27892

Phone #: 252-792-8196 - Fax #: 252-792-6603

SECURITY ALARM SYSTEMS

PHYSICAL ADDRESS 14677 US Highway 64 - Williamston, N.C. 27892 Web Site: www.williamsfiresprinkler.com

SAVING LIFE AND PROPERTY SINCE 1972

BDA (DAS) RADIO ENHANCEMENT SYSTEM PRODUCT SUBMITTALS FOR:

HARNETT COUNTY SCHOOLS - CENTRAL OFFICE RENOVATION 601 South Main Street Lillington, NC. 27546



FLEX Series BDA PS700-PS800 Digital Signal Boosters

Product Features

- · Supports Public Safety 700 & 800MHz dual band version
- FirstNet™ Band 14 available
- Upgradeable options: Class B to Class A & 0.5W/27dBm to 2W/ 33dBm
- Fully digital, FPGA-based
- Auto Diagnostic
- Automatic gain control per band; Per channel and per time slot on channel selective mode
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Antenna Isolation Alarm
- Weatherproof enclosure, NEMA4
- NFPA compliant with dry contact alarms
- Uplink and downlink squelch, per channel and per time slot on channel selective mode
- Assisted GUI wizard with Automatic Calibration features (Patent Pending) to reduce the uplink noise
- User adjustable gain control, UL and DL independent, per band, per channel and per time slot on channel selective mode
- 3-years Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- IC Approved
- IFC 2015, 2018, 2021 Edition Standards
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition
- RoHS Compliant
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.SGS-C US

Applications

Specification

- For P25 Phase I & Phase II, DMR, NXDN and Conventional Systems
- Indoor coverage: buildings, schools, hospitals, casinos, tunnels, metro stations
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas

Value



specification	Value			
Туре	Dual Band Digital Signal Booster			
Frequency Range	758-775 / 788-805 MHz or 764-776 / 794-806 MHz (software adjustable) & 806-824 / 851-869MHz			
Passband BW. min	100KHz to full band or Channel Selective (After Upgrade to Class A)			
Number of Passband	2 BWA per band or 32 channel filters + 2 BWA per band (After Upgrade to Class A)			
Channel Filter Options	150KHz, 100Khz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz and 12.5KHz (After Upgrade to Class A)			
BWA Filters	Adjustable from 100KHz to full band in step in steps of 50KHz			
Gain, maximum	85 dB			
Passband ripple	+/- 2.0 dB			
Gain, manual control	30dB range, digitally controlled in 1dB steps, per link, per band			
Antenna isolation	Max Gain + 20dB			
Composite output power, DL	+27dBm or +33dBm (After Upgrade to 2W) per band			
Composite output power, UL	+27dBm			
IMD	< -13dBm			
Noise Figure	9.0dB max			
Group Delay	 Band Selective: 3.5 to 6.5µS, depending on BWA Or After Class A upgrade Channel Selective 150KHz, 11.5µS Channel Selective 100KHz, 13.5µS Channel Selective 75KHz, 16.0µS Channel Selective 62.5KHz, 18.0µS Channel Selective 50KHz, 21.0µS Channel Selective 37.5KHz, 25.5µS Channel Selective 25KHz, 35.0µS Channel Selective 12.5KHz, 61.5µS 			



HONBDA-A-7S27B & HONBDA-D-7S27B

LICENSE NUMBER SP.FA/LV.32978 Special Restricted Fire Alarm/Low Voltage Classification License Limitation: Limited to electrical work directly related to a fire alarm, burglar alarm or low voltage system installation as prescribed in 21+ NCAC 18B .0804 is duly registered and entitle Williamston, NC 27892 P.O. Box 1048 Williams Fire Sprinkler Inc.-Automatic Fire **BOARD OF EXAMINERS OF ELECTRICAL CONTRACTORS** Williams Fire Sprinkler Inc.-Automatic Fire Systems THIS IS TO CERTIFY THAT: STATE OF NORTH CAROLINA William Thomas D Containing the Davis Strical Contracting in the Winess our hands and seal of the Hoard **EXPIRATION DATE** condary - Ireasures 01/27/2024 Chairman

FLEX Series BDA PS700-PS800-Digital Signal Boosters

HONBDA-A-7S27B & HONBDA-D-7S27B

Specification	Value			
Maximum input power, no damage	+5dBm (UL), +5dBm (DL)			
Maximum input power, normal operation	0dBm (UL), 0dBm (DL)			
Connectors	N(f) as standard			
RF Input/Output impedance	50Ω			
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, per band, per time slot and per channel (on Class A mode)			
Self-diagnostic platform	Microprocessor based			
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, temperature, AGC, RF overload, donor antenna failure, VSWR Indoor, oscillation.			
Local management and supervising	Local access via USB			
RoHS compliance	Yes			
Power Supply	AC 110 VAC, 50/60 Hz or DC +24VDC (depending on configuration)			
Power Consumption	65W or 80W (After Upgrade to 2W)			
Housing	NEMA 4			
Temperature Range	-13º to 131º F • -25º to +55º C			
Cooling	Natural convection			
Weight	52.9 lbs • 24 kg			
Dimension	17.7 x 17.3 x 5.1 in • 450 x 440 x 130 mm			
Mounting	Wall or pole mounting (Rack mounting option available)			
MTBF	250,000 hours			
FCC ID for HONBDA-A & HONBDA-D "Class	s B" P3TDH7S-00X			
FCC ID for HONBDA-A & HONBDA-D "Class	s A" P3TDH7S-00XA			

* Value valid for non duplexed units. This value can change depending on the filtering insertion loss of the duplexer.

WARNING: This is NOT a CONSUMER device. It is designed for installation by the FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

Ordering Information

HONBDA-A-7527B: 0.5W/27dBm, 800 + 700 + FirstNet CLASS B, Upgradeable to Class A, 2W/33dBm options, AC HONBDA-D-7527B: 0.5W/27dBm, 800 + 700 + FirstNet CLASS B, Upgradeable to Class A, 2W/33dBm options, DC

Upgraded License Part Numbers

 BDA-LIC-D27B-D27A:
 From
 0.5W/27dBm
 Class
 B
 to
 0.5W/27dBm
 Class
 A

 (HONBDA-A-7527A & HONBD-D-7527A)
 BDA-LIC-D27B-D33B:
 From
 0.5W/27dBm
 Class
 B
 0.2W/33dBm
 Class
 B

 BDA-LIC-D27B-D33B:
 From
 0.5W/27dBm
 Class
 B
 0.2W/33dBm
 Class
 B

 BDA-LIC-D27B-D33A:
 From
 0.5W/27dBm
 Class
 B
 0.2W/33dBm
 Class
 A

 BDA-LIC-D27B-D33A:
 From
 0.5W/27dBm
 Class
 B
 0.2W/33dBm
 Class
 A

 BDA-LIC-D27A-D33A:
 From
 0.5W/27dBm
 Class
 A
 0.2W/33dBm
 Class
 A

 HONBDA-A-7S33A & HONBDA-D-7S33A)
 BDA-LIC-D23B-D33A:
 From
 2W/33dBm
 Class
 A

 BDA-LIC-D33B-D33A:
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STANDARDS AND CODES

The HONBDA-A/D-7S27B units comply with the following standards and codes.

- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US
- IC Approved
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition Standard
- ROHS Compliant
- SGS C-UL Compliant
- UL2524 2nd Edition Standard with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524

Fiplex

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BATTERY BACKUP SYSTEMS

Product Features

- NFPA Compliant
- Up to 24 hour version
- AC Input, 24 Volt DC Output
- NEMA-4 Rated BBU Enclosure
- Up to 4 Annunciators may be connected to one BBU
- Tamper Proof with Lock and Key Accessibility
- Flush Wall Mounted Annunciators
- IFC & NFPA compliance; UL2524 2nd Edition
- Country of Origin: USA
- 3-year warranty (excluding batteries)
- Common Battery Backup Systems to support BDA, Fiber DAS Master/Remote





HONBDA-BTTY-100xxx

Specification	Value
Туре	Battery Backup Unit
Input	120 VAC 50/60 Hz
Size	24 x 20 x 10 in

Specifications	BTTY-100050
Storage capacity	100W / 12hs
Annunciator	AC Power Normal
	AC Power Failure
	Battery Capacity <30%
	Battery Charger Fail
	Donor Antenna Disconnection
	Donor Antenna Malfunction
	RF Emitter Fail
	System Component Fail
Max Load	270 W (contact Honeywell for battery duration at different loads)
Batteries	Included
BDA Annunciator	Built in, port for additional external annunciators
Weight (batteries included)	150lbs
Specifications	BTTY-100100
Storage capacity	100 W / 24 hs or 200 W / 12 hs
Annunciator	AC Power Normal
	AC Power Failure

Battery Capacity <30% Battery Charger Fail

System Component Fail

RF Emitter Fail

Donor Antenna Disconnection Donor Antenna Malfunction

270 W (contact Honeywell for battery duration at different loads)

Max Load



BATTERY BACKUP SYSTEMS

HONBDA-BTTY-100xxx

Batteries	Included
BDA Annunciator	Built in, port for additional external annunciators
Weight (batteries included)	210lbs
Specifications	BTTY-100050N
Storage capacity	100W / 12hs
Annunciator	AC Power Normal
	AC Power Failure
	Battery Capacity <30%
	Battery Charger Fail
	Donor Antenna Disconnection
	Donor Antenna Malfunction
	RF Emitter Fail
	System Component Fail
Max Load	270 W (contact Honeywell for battery duration at different loads)
Batteries	Not Included
BDA Annunciator	Built in, port for additional external annunciators
Weight	30lbs
Specifications	BTTY-100100N
Storage capacity	100 W / 24 hs or 200 W / 12 hs
Annunciator	AC Power Normal
	AC Power Failure
	Battery Capacity <30%
	Battery Charger Fail
	Donor Antenna Disconnection
	Donor Antenna Malfunction
	RF Emitter Fail
	System Component Fail
Max Load	270 W (contact Honeywell for battery duration at different loads)
Batteries	Not Included
BDA Annunciator	Built in, port for additional external annunciators
Weight	72lbs

Battery Models	Description
BDA-BTTY-12-1	Replacement Battery for 55AH BBU, single unit (2 batteries required)
BDA-BTTY-24-1	Replacement Battery for 100AH BBU, single unit (2 batteries required)

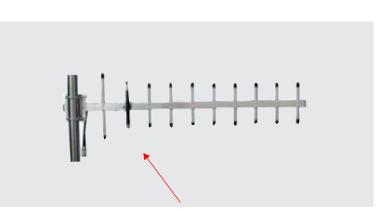
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OUTDOOR YAGI ANTENNA 698-869 MHz

Product Features

- PS700 & PS800 full band
- High Directivity
- Max Power 100W



BDA-YDA763869-14-1

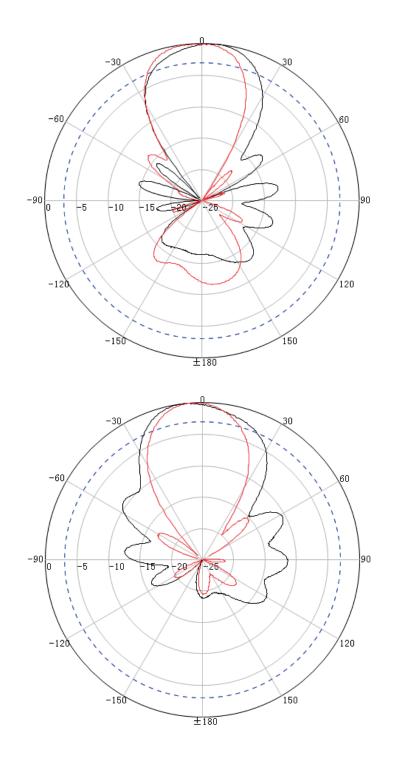
Electrical Specifications	Value
Frequency Range	698-869 MHz
F/B Ratio	>18 dB
Gain	14 dBi
VSWR	≤1.5
Radiation	Direction
Polarization	Vertical or Horizontal
Horizontal Beamwidth	40°
Vertical Beamwidth	32°
Input Impedance	50 Ω
Max. Input Power	100 W
Lightning Protection	DC Ground
Cable Type	RG58U
Cable Length	30cm
Mount way	Pole
Diameter of Installation Pole	Ø30~Ø50mm
Mechanical Specifications	Value
Connector	N Female
Max wind	130 miles/hour
Dimensions	1100x230x45mm
Weight	0.90 kg
Color	White
Radome Material	Aluminum Alloy
Operating Temperature	-40°C to +65 °C

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BDA-YDA763869-14-1

OUTDOOR YAGI ANTENNA 698-869 MHz

Radiating Patterns



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COAXIAL SURGE PROTECTOR DC-7GHz

Product Features

- RF coaxial surge protector
- DC-7 GHz
- 70 W
- Connectors : N
- Low insertion loss
- Removale GDT
- DC-pass
- Bi-directional protection





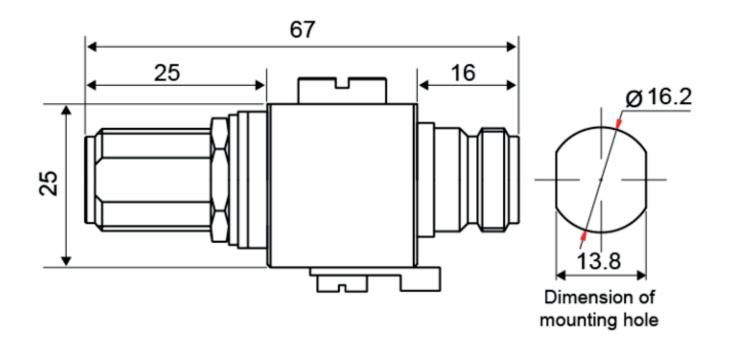
Electric Specifications	Value
Frequency range	DC-7 GHz
Insertion loss	< 0.2 dB
Return loss	> 19 dB
Impedance	50 ohms
VSWR	<1.25:1
Max. load current	10 A
Operating current(Continious current at Uc)	None
Max. discharge current(max. withstand @ 8/20 μs by pole)	20 kA
Protection mode(s)	Common mode
Protection level (@ In (8/20µs)	< 1100 V
Impulse current(2 x 10/350µs Test - D1 Category)	1 kA
Nominal discharge current(8/20µs Test x 10 - C2 Category)	5 kA
Max Power	70 W
Typical let through energy (50 ohms) input 4kV 1.2/50µs - 2kA 8/20µs)	2.2 mJ
DC Pass	true
Insulation resistance	≥10 GOhms

Mechanical Specifications	Value	
Technology	Gas discharge tube	
Connection to Network	connector N Female/Female	
Mounting	Feedthrough	
Housing material	Brass/Surface plating : Cu Zn Sn	
Operating temperature	-40/+85°C	
Protection rating	IP66	
Outdoor application	Yes	
Failsafe mode	Short-circuit	
Disconnection indicator	Transmission interrupt	
Spare module(s)	2 x BA HF - 90/20	
Contacts	Bronze/Surface Au-Ag	
Weight	0.165 kg	

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COAXIAL SURGE PROTECTOR DC-7GHz

BDA-P8AX09-6G-N/FF



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HIGH POWER DIRECTIONAL COUPLER 698 - 2690 MHz

BDA-DCxx-W2

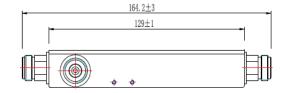
Product Applications

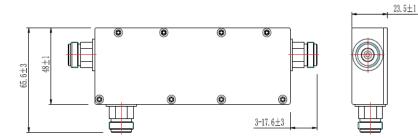
Fiplex RSA Series of RF Directional Couplers are passive devices designed to provide unequal power distribution to the output ports.

Due to the internal configuration, this devices have a low VSWR value in all ports (less than 1.3:1, based on 50 ohms characteristic impedance) and low incidental insertion loss. Standard coupling values are 6dB, 10dB, 15dB, 20dB and 30dB, other power ratios available upon request.



Specification	Value					
Product Number	DC6-W2	DC8-W2	DC10-W2	DC15-W2	DC20-W2	DC30-W2
Coupling(dB)	6	8	10	15	20	30
Accuracy(dB)	±0.8	±0.8	±1.0	±1.2	±1.2	±1.5
Insertion Loss(dB)	≤1.75	≤1.30	≤0.80	≤0.50	≤0.40	≤0.40
Isolation	≥26	≥28	≥28	≥32	≥35	≥45
Freq			698 - 2690 I	ИНz		
VSWR			≤1.25			
Power Rating			300W (avera	age Per Port)	
Impedance			50 ohm			
Connector			N-female			
Color			Red-plated			
Operating Temperature			-25°C to +7	5°C		
Weight			0.38 kg			





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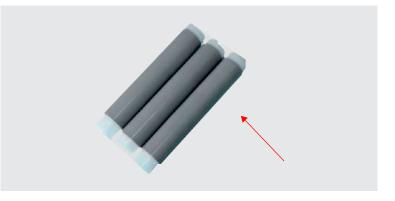
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WEATHERPROOFING SILICONE COLDSHRINK FOR EOL ASSEMBLY, 9.8"L

BDA-WPK-ATBC40_01

Product Features

- Silicone Rubber
- Flame Retardant UL94-HB
- Extra duration
- Weatherproof Silicon Rubber



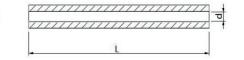
Specifications	Value
Material	Silicone Rubber
Hardness, Shore A	35 - 45
Specific Gravity (25 °C)	1.08 1.16
Color	Grey (Pantone 431U)
Flame Retardant	UL94-HB
Tensile Strength	≥ 7.0 MPa (23 °C ASTM D412)
Elongation	≥ 650% (23 °C ASTM D412
Tear Strength	≥ 25 KN/m (23 °C ASTM D 624)
Temperature Range	-6 0 °C 200 °C
Ozone Resistance	70h, ASTM D518-A
UV Resistance	1000h, ISO4892.3 Cycle1
Mold Resistance	IEC60068-2-10 , Class 1
Hose Clamp	Includes 2 (16-25 mm)
Life Time	20 Years
IP Grade	IPx8 (IEC 60529)
Dimensions	40 x 10 x 250 mm

Before Shrink

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After Shrink



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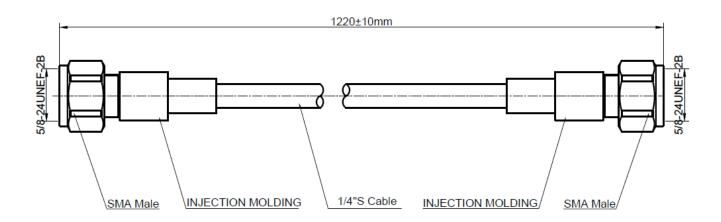
JUMPER 1/4" S N male and N male

BDA-NM-RG8-13-NM

Product Features

- Low VSWR
- Low Insertion Loss
- Robust Design

Specification	Value
Connector	N Male both ends
Type of Cable	1/4" SUPERFLEX
Length of cable	48 Inch
Center conductor material	Brass - Silver Plating
Insulator material	PTFE
Body connector material	Brass - Ternary alloy plating
IMmpedance	50 Ohms
Frequency range	0 - 6 GHz
VSWR	1.2 (0-3.8GHZ)
PIM	<= -160DBC@1800MHZ



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INDOOR OMNI CEILING ANTENNA 698-869 MHz



- PS700 & PS800 full band
- Omni Directional Ceiling Antenna
- Max Power 100W



BDA-OIA-698869-3-1

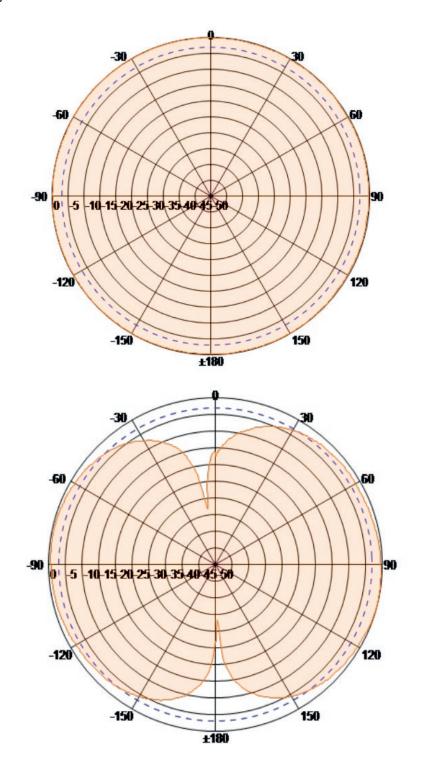
Electrical Specifications	Value	
Frequency Range	698-869 MHz	
Gain	3 dBi	
VSWR	≤1.5	
Polarization	Vertical	
Horizontal Beamwidth	360°	
Vertical Beamwidth	55°	
Input Impedance	50 Ω	
Max. Input Power	100 W	
Lightning Protection	DC Ground	
Mechanical Specifications	Value	
Connector	N Female	
Dimensions	Ø165*95mm	
Weight	0.25 kg	
Color	White	
Radome Material	ABS	
Operating Temperature	-40°C to +65 °C	



INDOOR OMNI CEILING ANTENNA 698-869 MHz

BDA-OIA-698869-3-1

Radiation Patterns



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GROUNDING KIT FOR 1/2" COAXIAL CABLE, 500mm

Product Features

- For 1/2" RF Cable
- Copper cable
- PVC Jacket



Product Structure Grounding Kit	Value	
Cable Kit	Copper, for 1/2"	
Rivet	Copper	
Locking Bail Material	Stainless steel	
Grounding Cable	16 mm2 Copper wire & PVC, Black	
Cable Lug	Tin-Plated Copper(1 hole M8)	
Product Structure Hardware	Value	
Hexagon Screw	A2 Stainless Steel, M8X25mm	
Nut	A2 Stainless Steel, M8	
Spring Washer	A2 Stainless Steel, M8	
Washer	A2 Stainless Steel, M8	
General Specifications	Value	
Cable Type	Corrugated	
Cable Size	1/2" & 1/2" Low Loss	
Lug Type	One-hole lug	
Lug Attachment	Factory attached	
Cable Specifications	Value	
Bonding Conductor Length	500mm	
Bonding Conductor Material	Copper	
Bonding Conductor Wire Size	16 mm2	
Bonding Conductor Jacketing Material	PVC	
Electrical Specifications	Value	
Current Handling	Tested to withstand 100,000 amps peak current surge	
Current Handling Test Method	MIL-STD-1757	
Grounding, Bonding and Shielding Test Method	MIL-STD-188-124A	
Lightning Protection Test Method	IEC 1024-1	



→ BDA-GNDKIT1

GROUNDING KIT FOR 1/2" COAXIAL CABLE, 500mm

BDA-GNDKIT1

Environment Specifications	Value
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +80°C
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Blowing Rain Test Method	MIL-STD-810, Method 506
Corrosion Test Method	MIL-STD-1344, Method 1001
Freezing Rain/Icing Test Method	MIL-STD-810, Method 521
Humidity Test Method	MIL-STD-1344, Method 1002
UV Resistance Test Method	MIL-STD-810, Method 505
Vibration Test Method	IEC 60068-2-6:2007

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N (m) CONNECTOR 0 - 3GHz

Product Features

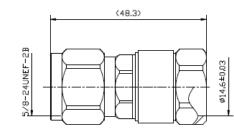
N male connector

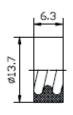
• For 1/2 " cable



→ NM-ICA12-50JPLLR

Electrical Specifications	Value	
Impedance	50Ω	
Frequency range	0~3GHz	
Working Voltage	1500V max	
Withstand Voltage	2500V rms	
VSWR	Straight ≤ 1.2	
	Rigth Angle ≤ 1.3	
Contact resistance	center contact $\leq 1m\Omega$	
	outer contact $\leq 1m\Omega$	
Insulation resistance	≥5000MΩ	
Mechanical Specifications	Value	
Temperature range	-35°C∼+155°C	
Durability(matings)	>500	
Material Specifications	Value	
Body	Brass Tri-Metal or nickel	
Center conductor	Phosphor Bronze Gold or silver plated	
Coupling nut	Brass Nickel	
Gasket	Silicone Rubber	
Insulator	PTFE	





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1/2" ClearFill®Line Aluminum Plenum-Rated Air-Dielectric Coaxial Cable for In-Building Applications

ClearFill®Line 1/2" low-loss air dielectric cable, Plenum-rated, CMP

FEATURES / BENEFITS

Θ	Supports Multiple RF Signals
Θ	Complete Shielding The solid outer conductor of the ClearFill®Line coaxial cable creates a continuous RFI/EMI shield that minimizes system interference.
∂	Outstanding Intermodulation Performance RFS coaxial cable's solid inner and outer conductors virtually eliminate intermods. Intermodulation performance is also confirmed with state-of-the-art equipment at the RFS factory.
∂	Wide Range of Applications Typical areas of application are feedlines for plenum-space installations within occupied buildings or structures but also suitable for outdoor use due to jacket UV rating.

Technical Features

APPLICATIONS

AT LIGATIONS			
Applications		Suitable for plenum in-building/public safety or outdoor usage	
STRUCTURE			
Cable Type		Air-Dielectric, Corrugated	
Size	1/2"		
Inner Conductor	mm (in) 4.8 (0.19) Copper-Clad Aluminum Wire		
Dielectric	mm (in)	11.8 (0.464) Extruded Polyethylene	
Outer Conductor	mm (in)	13.8 (0.54) Corrugated Aluminum	
Jacket	mm (in)	15.93 (0.627) Plenum Rated / Color Red UV rated to ASTM G155	
ELECTRICAL SPECIFICATIONS			
Impedance	Dedance Ω 50 +/- 1		
Maximum Frequency	GHz	6.0	
Velocity	%	% 91.0	
Capacitance	pF/m (pF/ft)		
Inductance	μH/m (μH/ft)	μH/m (μH/ft) 0.19 (0.058)	
Peak Power Rating	kW	40.0	
RF Peak Voltage	Volts	2000.0	
Jacket Spark	Volt RMS		
Inner Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)		
Outer Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)		
Return Loss (VSWR) Performance		19 (1.25) @ 450-960 MHz 19 (1.25) @ 1395-1432 MHz 19 (1.25) @ 1700-2155 MHz 19 (1.25) @ 2300-2500 MHz	
Temperature & Power		High Power Rating	
MECHANICAL SPECIFICATIONS			
Cable Weight, Nominal	kg/m (lb/ft)	0.19 (0.13)	
Minimum Bending Radius, Single Bend	mm (in)	76 (3)	
Minimum Bending Radius, Repeated Bends	mm (in)	127 (5)	
Bending Moment	Nm (lb*ft)	5.4	
Tensile Strength	N (lb)	549 (150)	
Recommended / Maximum Clamp Spacing	m (ft)	0.5 / 0.9 (1.8 / 3)	
Crush Strength	kg/mm (lb/ln)	0.893 (50)	



1/2" ClearFill®Line Aluminum Plenum-Rated Air-Dielectric Coaxial Cable for In-Building Applications

ATTENUATION AND POWER RATING			
Frequency MHz	Attenuation dB/100m dB/100ft		Power kW
0.5	0.16	0.05	40.00
1	0.23	0.071	32.80
1.5	0.28	0.087	26.80
2	0.33	0.101	23.20
10	0.74	0.226	10.30
20	1.06	0.322	7.22
30	1.30	0.395	5.89
50	1.68	0.514	4.55
88	2.25	0.687	3.40
100	2.41	0.734	3.18
108	2.51	0.764	3.05
150	2.98	0.907	2.57
174	3.22	0.98	2.38
200	3.46	1.05	2.21
300	4.29	1.31	1.79
400	5.00	1.52	1.53
450	5.32	1.62	1.44
500	5.63	1.72	1.36
512	5.71	1.74	1.34
600	6.22	1.90	1.23
700	6.76	2.06	1.14
750	7.02	2.14	1.09
800	7.28	2.22	1.06
824	7.40	2.25	1.04
894	7.74	2.36	0.993
900	7.76	2.37	0.99
925	7.88	2.40	0.976
960	8.05	2.45	0.955
1000	8.23	2.51	0.934
1250	9.32	2.84	0.826
1400	9.93	3.03	0.776
1500	10.30	3.15	0.749
1700	11.10	3.38	0.695
1800	11.50	3.49	0.671
2000	12.20	3.71	0.634
2100	12.50	3.81	0.619
2200	12.80	3.92	0.605
2300	13.20	4.02	0.587
2400	13.50	4.12	0.574
2500	13.80	4.22	0.562
2600	14.20	4.31	0.546
2700	14.50	4.41	0.535
3000	15.40	4.69	0.505
3500	16.90	5.14	0.461
3600	17.10	5.22	0.456
4000	18.30	5.56	0.427
4500	19.60	5.97	0.399
5000	20.90	6.36	0.376
5500	22.10	6.74	0.356
6000	23.30	7.11	0.339

TESTING AND ENVIRONMENTAL

Fire Performance	Flame Retardant, Plenum-rated, CMP
Regulatory Compliance	NEC Article 800 Communication Circuits ETL Listed to UL444 Canadian CSA C.22.2/FT6
Installation Temperature	-20 to 60 (-4 to 140) °C(°F)
Storage Temperature	-40 to 85 (-40 to 185) °C(°F)
Operation Temperature	-40 to 85 (-40 to 185) °C(°F)

Attenuation at 20°C (68°F) cable temperature; tolerance +/- 5% max.; Mean power rating at 40°C (104°F) ambient temperature

External Document Links Notes

ICA12-50JPLLR

REV: B

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering