F4R-NMANMA-15M

HELIAX® 1/2" Superflexible Fire retardant Jumper with interface types N Male and N Male, 15 m, with integrated surge arrestors on both ends, with black non-halogenated fire retardant polyolefin jacket

Product Classification

Product Brand	HELIAX®
Product Series	FSJ4-50B

General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	N Male
Interface, Connector B	N Male
Specification Sheet Revision Level	A

Dimensions

Length	15 m | 49.213 ft
Nominal Size	1/2 in

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)	Insertion Loss (dB)
2400–2500 MHz	1.296	17.8	3.6

Jumper Assembly Sample Label

F4R-NMANMA-15M

Environmental Specifications

EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d1
EN50575 CPR Cable EuroClass Acidity Rating	a1
Immersion Test Method	Meets IEC 60529:2001, IP68 in mated condition

Included Products

APG-F4-NM-350	–	Arrestor Gas Tube Surge Arrestor (350 V), 2400–2500 MHz, with interface types N male for 1 /2" Superflexible Foam Coaxial Cable

APG-F4-NM-350

Arrestor Gas Tube Surge Arrestor (350 V), 2400–2500 MHz, with interface types N male for 1/2" Superflexible Foam Coaxial Cable

Product Classification

Product Type	Surge arrestor
Ordering Note	ANDREW® non-standard product

General Specifications

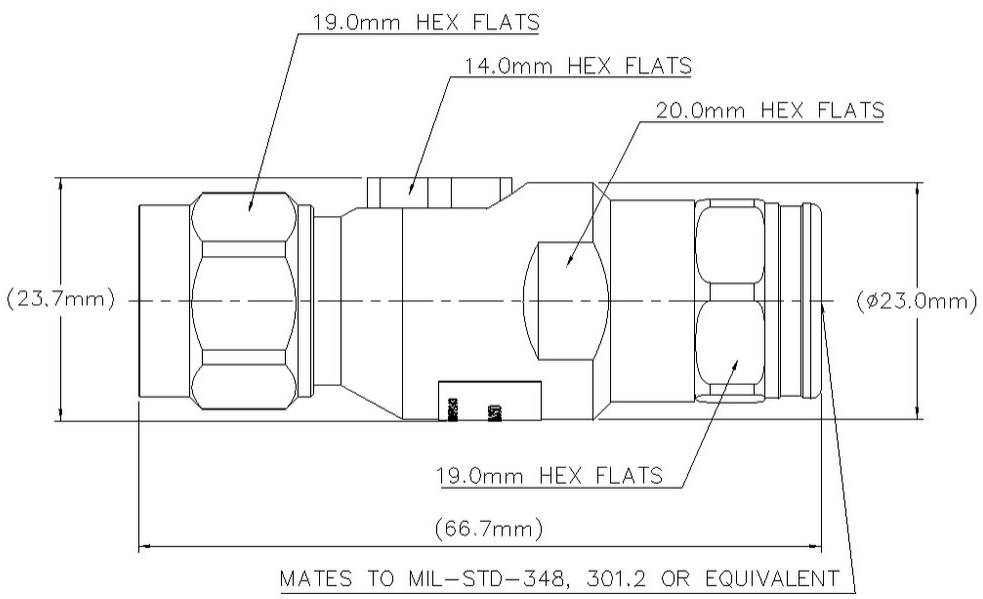
Device Type	dc Pass
Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	N Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	23.7 mm | 0.933 in
Length	66.7 mm | 2.626 in

Outline Drawing

APG-F4-NM-350



Electrical Specifications

Insertion Loss, typical	0.2 dB
Average Power	40 W
Connector Impedance	50 ohm
Gas Tube Voltage	350 V
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Frequency Band	2400 – 2500 MHz

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
2400–2500 MHz	1.296	17.8

Mechanical Specifications

Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5

Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C

Environmental Specifications

Operating Temperature	-40 °C to +100 °C (-40 °F to +212 °F)
Storage Temperature	-40 °C to +100 °C (-40 °F to +212 °F)
Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Corrosion Test Method	MIL-STD-202, Method 101, Test Condition B
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	MIL-STD-202, Method 106
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	GR 2846-CORE
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

Weight, net	0.097 kg | 0.214 lb