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Waveguide Extensions/Accessories

FiberPlex WEB Brass Extension tubes for use with WGF series waveguides



The Brass Waveguide Extension Tube (WEB) and Waveguide Coupling Nut (WCN) enable easier pass-through of fiber through walls up to 12 inches (30.5 cm) thick.

Overview

FiberPlex WGF series of waveguide filters provide a way of bringing pre-terminated fiber optic cables into a shielded enclosure while maintaining the enclosure's radio frequency isolation integrity. The diameter and length of the bore are precisely calculated to provide a measured attenuation at a specific cutoff frequency. This works extremely well, but occasionally the wall of the shielded enclosure, SCIF, or chamber that needs to be penetrated is thicker than the calculated length of the waveguide filter.

WEB tubes are made of brass, and can be installed in walls up to 6 inches (15.2 cm) thick for the WEB-6 or 12 inches (30.5 cm) thick for the WEB-12. They have external threads that match the WGF-6, WGF-461 and WGF-4, and require a WCN-6 Waveguide Coupling Nut (thread size 1-1/8 inch, 18 NEF) to attach them to the Waveguide Filter (WGF).

Note: If you are installing a WGF into a wall that is up to 2.51 inches (6.38 cm) thick, consider the Waveguide Extension Nut (WEN) (<https://www.patton.com/WEN/>) which provides an extension solution that maintains the mathematically calculated dimensions of the waveguide while creating a flush-mounted solution. Or if you are installing a WGF into a wall that is up to 18 inches (45.7 cm) thick, consider the PVC Waveguide Extension Tube (WET) (<https://www.patton.com/WET/>).

Applications



Features

- Extension tubes for WGF Waveguide filters
- Allows for easier routing of fiber through thick walls

Compatible Products



WGF-6 Waveguide Filter with removable plug for pre-terminated fibers, 27 GHz Cutoff, 6 bores



WGF-461 Waveguide Filter with removable plug for pre-terminated fibers, 44.2 GHz Cutoff, 6 bores



WGF-4 Waveguide Filter, 18.5 GHz Cutoff, 4 bores

Specifications

The specifications for this product are contained in the User Manual

Ordering

#	Model #	Description	Availability
1	WCN-6	Waveguide coupling nut, brass, 1 in thick, for connecting WEB-6 to WGF-4, WGF-6, WGF-461 Waveguides	General Availability
2	WEB-12	Waveguide extension tube, brass, 12 in long, body thread size 1.125 in, 18 NEF, for extending WGF-4, WGF-6, WGF-461 Waveguides	General Availability
3	WEB-6	Waveguide extension tube, brass, 6 in long, body thread size 1.125 in, 18 NEF, for extending WGF-4, WGF-6, WGF-461 Waveguides	General Availability

Item Number	Item Description	Price
SVC-SmartCare-BH (/support/support.asp)	Premium Support for Business Hours	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartCare-24/7 (/support/support.asp)	Premium Support, 24 x 7 Coverage	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-BH (/support/support-professional.asp)	Business Hour Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-AH (/support/support-professional.asp)	After Hours Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR1 (/support/support-warranty.asp)	1 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support-warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-NETENG-HOUR (/support/support-professional.asp)	Network technician hour rate for pre-config services, after hours support, etc.	Contact us (/howtobuy/) for availability and pricing.

Backgrounders

FiberPlex Capabilities Guide (/backgrounders/FiberPlex_Capabilities_Statement.pdf)

October 6, 2017

Data Sheets

FiberPlex WGF Waveguides (/datasheet/Fiberplex_WGF_Waveguides.pdf)

July 21, 2015

Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf)

April 24, 2015

FiberPlex WGN-12 (/datasheet/Fiberplex_WGN-12_120101.pdf)

January 1, 2012

FiberPlex WMA 2001/3002 (/datasheet/Fiberplex_WMA-2001-3002_120101.pdf)

January 1, 2012

Product & Solution Guides

FiberPlex Connectivity Product Guide (/guides/07FPC-OV_lo-res.pdf)

August 24, 2018

Enterprise Networking Products Guide (/guides/07MENTNET-PG-lo.pdf)

November 10, 2010

User Manuals & Configuration Guides

FiberPlex Waveguide WGF-4 User Manual (/manuals/WGF-4_User_Manual_170824.pdf)

August 24, 2017

FiberPlex Waveguide Extension WEN-6 User Manual (/manuals/WEN-6_User_Manual_170103.pdf)

January 3, 2017

FiberPlex Waveguide WGF-461 User Manual (/manuals/WGF-461_User_Manual_161123.pdf)

November 28, 2016

FiberPlex Waveguide WGF-12 User Manual (/manuals/WGF-12_User_Manual_161123.pdf)

November 23, 2016

FiberPlex Waveguide WGF-6 User Manual (/manuals/WGF-6_User_Manual_161123.pdf)

November 23, 2016

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