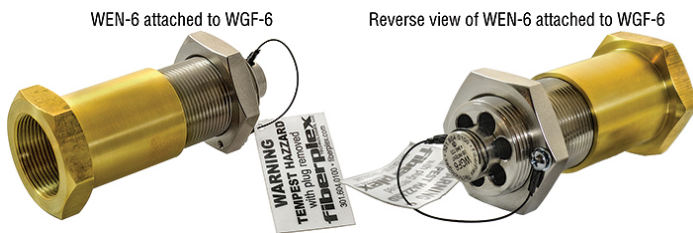# Waveguide Extensions/Accessories

FiberPlex WEN-6 Waveguide extension nuts for WGF series waveguides

FiberPlex

FiberPlex Waveguide Extension Nuts (WEN) for WGF series waveguide filters. The WEN-6 provides a neat, flush-mounted solution that accommodates walls up to 2.51 inches (6.38 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.

WEN-6 attached to WGF-6   Reverse view of WEN-6 attached to WGF-6

The WEN-6 solves this problem in walls that are up to 2.51 inches (6.38 cm) thick by providing an extension solution that maintains the mathematically calculated dimensions of the waveguide while creating a flush-mounted solution as shown in the video below.

Features

- Extends the length of a FiberPlex waveguide
- Creates a neat flush-mounted solution
- Simple installation

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
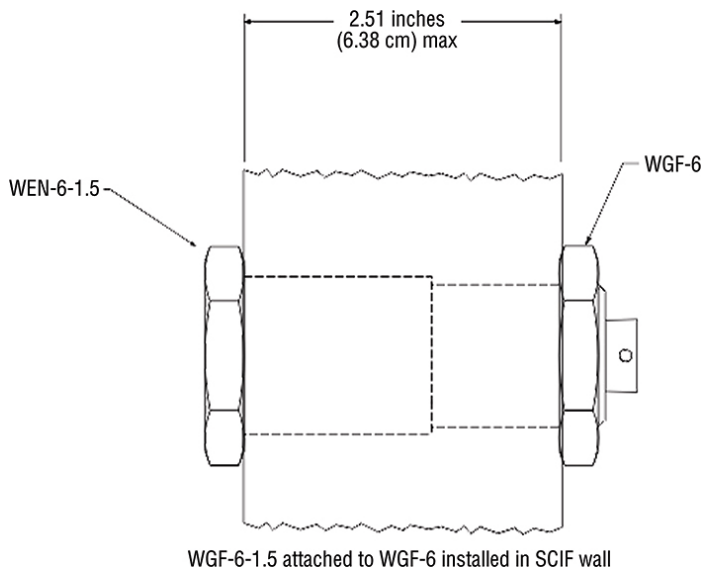
FiberPlex WEN-6 Waveguide Extension Nut

Note: If you are installing a WGF into a wall that is up to 12 inches (30.5 cm) thick, consider the Brass Waveguide Extension Tube (WEB) and Waveguide Coupling Nut (WCN) (https://www.patton.com/WEB/) or if you are installing 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

The WEN is typically installed in SCIF or TEMPEST enclosures, but they are also ideal for applications such as these:

- EMC Testing
- RF Testing
- Manufacturing
- MRI / Medical
- Anechoic Chambers

Note: The WEN is available in custom lengths, please call +1 301 975 1000 for details.

WGF-6-1.5 attached to WGF-6 installed in SCIF wall

Specifications

The specifications for this product are contained in the User Manual

Ordering

#	Model #	Description	Availability
1	WEN-6-1.5	Waveguide Extension Nut, for use with WGF-6, WGF-461, WGF-4, 1.50"" long	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

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

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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