



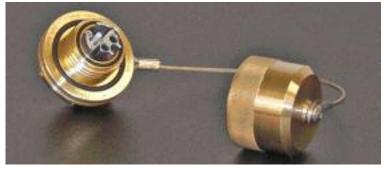
GoldRush® Brass Plug

About GoldRush® Connectors

Amphenol Fiber Systems International (AFSI) has designed the next generation "longwall communications" deployable fiber optic connector. By responding to specific customer needs and leveraging the family of AFSI TFOCA-II® connectors, the GoldRush® series of fiber optic connectors was born. These innovative interconnect solutions have become an enabling technology for "digital mining." AFSI's GoldRush® connectors address specific mining requirements for the future of intelligent mining.

GoldRush® connectors are the only Mining Safety and Health Administration (MSHA) certified fiber optic connectors for use in underground mines under Title 30 CFR, Part 18.

The heart of the GoldRush® family of deployable fiber optic connectors is the TFOCA-II® termini, featuring "sealed" free floating termini. This revolutionary design enables GoldRush® connectors to seal against high humidity and moisture conditions while allowing full axial and orbital movement of the mated termini, providing the lowest possible insertion loss.



GoldRush® Brass Panel Mount Receptacle

Features and Benefits

- Hermaphroditic Design for Versatility -Enables the GoldRush® plug to be daisy-chained or unreeled from either end of a reel
- Brass Construction Eliminates thermite concerns. Also available in stainless steel (for corrosive environments) and aluminum
- 4-Channel Connector Design Provides system flexibility
- Optional Key Positions Four key positions (1, 2, 3 and universal) available, enabling segregation of mated plug/receptacles or plug/plug, through mechanical interface
- Improved Cable Retention Strength -Designed to meet 400 lb pull strength while protecting fibers from stress
- Solid Core Alignment Sleeves More robust than split alignment sleeves
- Removable End Cap Allows for easy field repair and cleaning
- Commercial Ceramic Ferrule Technology -Enables GoldRush® connectors to provision multimode and single mode interconnect with a variety of polishes including SPC and UPC
- Field Repairable Using Existing Parts Additional connector components (other than termini) are not required to perform field repair

Applications

- Mining
- Oil, Gas and Geoscience industries
- Industrial



GoldRush® Brass Gland Receptacle

Fiber Optic Solutions www.fibersystems.com



GoldRush Specifications

Parameter	Typical	Maximum	
Insertion Loss (Multimode)	0.30dB	0.75dB	
Insertion Loss (Single Mode)	0.40dB	0.75dB	
Back Reflection (Single Mode-PC Polish)	-50dB	-40dB	
Back Reflection (Single Mode-UPC Polish)	-50dB	-40dB	
Operating Temperature	-46° C to + 71° C		
Storage Temperature	-52° C to + 85° C		
Mud	5 minute immersion, clean with water		
Water Pressure	1 meter for 24 hours		
Ice Crush/Freezing Water	Immersed and frozen in water for seven hours		
Humidity Immersion	TIA/EIA-455-5, 5 cycles		
Vibration (Operational)	TIA/EIA-455-11		
Shock	EIA/TIA-455-14, Condition A		
Cable Seal Flexing	100 cycles per TIA/EIA-455-1		
Twist	1,000 cycles per EIA/TIA-455-36		
Cable Retention	400 lb minimum per EIA/TIA-455-6 (applies to plug only)		
Impact	EIA/TIA-455-2		
Crush Resistance	450 lb minimum per EIA/TIA-455-26		
EMI Shielding Effectiveness (Receptacle Only)	> 60dB		

^{1.} Some parameters qualified to existing TFOCA-II® design

GoldRush® Part Numbers

Product NumberProduct NameFS4H5000-Y-ZGoldRush® 4-Channel Brass Hermaphroditic Plug (MSHA Cert. No. 18-NXA050001-0)FS4H5001-ZGoldRush® 4-Channel Brass "D" Mount Jam Nut Receptacle (Not MSHA Certified)

FS4H5002-Z GoldRush® 4-Channel Brass Packing Gland Receptacle (MSHA Cert. No. 18-NXA050001-0)

Y=H Cable Diameter Range .190239	Z=1 Key Option 1, Grey
Y=F Cable Diameter Range .240279	Z=2 Key Option 2, Blue
Y=A Cable Diameter Range .280315	Z=3 Key Option 3, Red
Y=B Cable Diameter Range .316346	Z=U Key "U", Green
Y=G Cable Diameter Range .347379	
Y=C Cable Diameter Range .380423	
Y=D Cable Diameter Range .424465	

MTFP1X00Y TFOCA-II® Terminus

ı	Product Number	X=Ferrule Type	Y=Crimp
ı	MTFP1000	0=Multimode	Blank=W/O Crimp
V	MTFP1000C	0=Multimode	C=With Crimp
1	MTFP1100	1=Single mode	Blank=W/O Crimp
١	MTFP1100C	1=Single mode	C=With Crimp

MTFP1150 TFOCA-II® Alignment Sleeve, Multimode MTFP1175 TFOCA-II® Alignment Sleeve, Single mode MTFP0000 TFOCA-II® Dummy Terminus



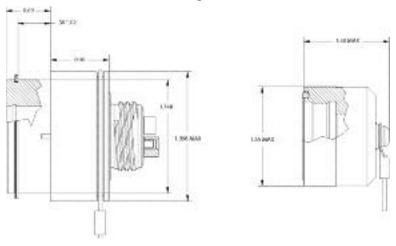
GoldRush® Plug to Plug Cable Assembly on Hannay Reel

For fully warranted and qualified custom cable assemblies utilizing the GoldRush® product line, please contact Amphenol Fiber Systems International at 800-472-4225 or email us at sales@fibersystems.com

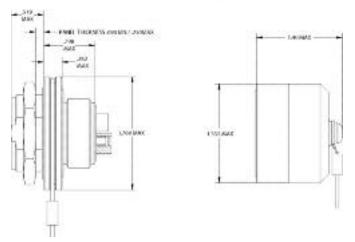
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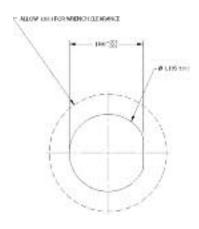
FS4H5002 GoldRush® 4-Channel Brass Packing Gland Receptacle (MSHA Cert. No. 18-NXA050001-0)



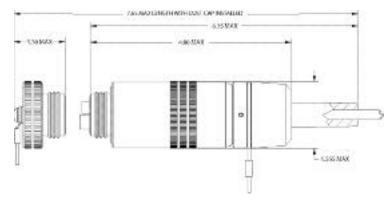
FS4H5001 GoldRush® 4-Channel Brass "D" Mount Jam Nut Receptacle (Not MSHA Certified)



GoldRush® 4-Channel Brass
"D" Mount Jam Nut Receptacle
Panel Cutout



FS4H5000 GoldRush® 4-Channel Brass Hermaphroditic Plug (MSHA Cert. No. 18-NXA050001-0)



Drawings are not to scale. Measurements are in inches.

Fiber Optic Solutions www.fibersystems.com









How to Order

For more information on how to order or to obtain a price quote on our GoldRush® TFOCA-II®, call toll free (US only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail sales@fibersystems.com.

About Amphenol Fiber Systems International

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, oil & gas, mining and broadcast applications. After more than a decade in business, AFSI continues to uphold its position as a global leader in fiber optic interconnect components and systems such as termini, M28876, MIL-ST, TFOCA and the TFOCA-II® connector, which AFSI developed and patented.

AFSI has delivered millions of fiber optic connectors worldwide. Whenever there is a need for superior, cost-effective fiber optic systems and products that will stand up to demanding operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

For more information about AFSI, visit www.fiber-systems.com.

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