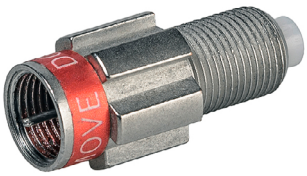
PRODUCT FAMILY	DESCRIPTION
CONNECTORS AND ACCESSORIES	BARRIER® ADAPTORS

FEATURES



WINNER
TECHNOLOGICAL INNOVATION AWARD 2013
"BEST CPE SOLUTION"

BarrIER®

- >> **ELIMINATION** of ingress and egress
- >> **CLASS A++** shielding when **BarrIER®** is connected and exceeding class A when open
- >> All brass construction with **NiSn** plating
- >> **SPRING NOSE** continuous ground technology
- >> **RETROFIT** to any existing F connector whilst maintaining your existing investment in the home

SPECIFICATIONS

ADAPTOR BAR-FMA
ELECTRICAL AND RF CHARACTERISTICS

IMPEDANCE	75 Ohms	
FREQUENCY RANGE	DC - 3 GHz	
INSERTION LOSS (typical)	5-470	-0.1 dB
	470-1000	-0.2 dB
	1000-2000	-0.3 dB
	2000-3000	-0.4 dB
RETURN LOSS (typical)	5-470	-43 dB
	470-1000	-38 dB
	1000-2000	-27 dB
	2000-3000	-17 dB
CONTACT RESISTANCE	DC 15 Milliohms	
SCREENING EFFECTIVENESS	Better than -100 dB from DC to 1.2 GHz	
NOISE REDUCTION (in comparison to an open F Male)	-35 dB Typical DC to 1.2 GHz	

FUTUREPROOFING
your in-home network with BarrIER®

Easily upgrade your existing customer install by a simple retro-fit **BarrIER®** adaptor.

No need to replace any of the existing installed cables or passive devices, simply upgrade your existing investment and futureproof your interconnect from Ingress/Egress/LTE

Fly-lead UPGRADE

MECHANICAL CHARACTERISTICS	
CONTACT RETENTION	180 gms
OPERATING TEMPERATURE	-40 to +60 °C
CONNECTOR MATERIAL	Brass
CONNECTOR PLATING	Nickel Tin (NiSn)
PIN MATERIAL	Male: Brass Female: BeCU
PIN PLATING	Nickel Tin (NiSn)
INSULATOR MATERIAL	HDPE
Supplied with protective plastic caps on the male and female threads	

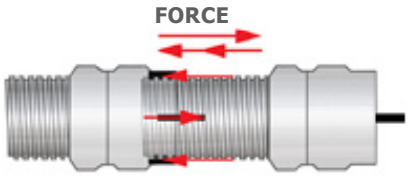
ADAPTOR BAR-MFA ELECTRICAL AND RF CHARACTERISTICS		
IMPEDANCE	75 Ohms	
FREQUENCY RANGE	DC - 3 GHz	
INSERTION LOSS (typical)	5-1000	-0.1 dB
	1000-2000	-0.2 dB
	2000-3000	-0.3 dB
RETURN LOSS (typical)	5-470	-40 dB
	470-1000	-30 dB
	1000-2000	-28 dB
	2000-3000	-16 dB
CONTACT RESISTANCE	DC 40 Milliohms	
SCREENING EFFECTIVENESS	Better than -95 dB from DC to 1.2 GHz	
NOISE REDUCTION (in comparison to an open F Malev)	-35 dB Typical DC to 1.2 GHz	

MECHANICAL CHARACTERISTICS	
CONTACT RETENTION	50 gms
OPERATING TEMPERATURE	-40 to +60 °C
CONNECTOR MATERIAL	Zinc
CONNECTOR PLATING	Nickel Tin (NiSn)
PIN MATERIAL	Beryllium Copper
PIN PLATING	Nickel Tin (NiSn)
INSULATOR MATERIAL	HDPE
Supplied with protective plastic caps on the male and female threads	

A SPANNER THAT SECURES your network!

The custom made tool for BAR-MFA (F male to BarrIER F female adapter) lets you tighten the adapter properly. The normal F male thread has a dry-lock adhesive that locks the adapter in place and creates a permanent barrier against ingress in your network. Practically the spanner only works in one direction - it's designed to **SECURE** not to undo. Once made, the connection cannot be broken.

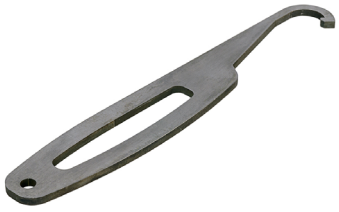
STOP THAT INGRESS!



SPRING NOSE CONTINUOUS GROUND TECHNOLOGY

BarrIER® offers you 20dB (typically more) shielding improvement in cases where connectors might be loose in your network. The unique internal plunger spring within BarrIER® connectors apply a rearward force to the mating connector so that metal-to-metal contact between the male and female threads is maintained. It also makes BarrIER® connections immune against vibration and unwanted turning.

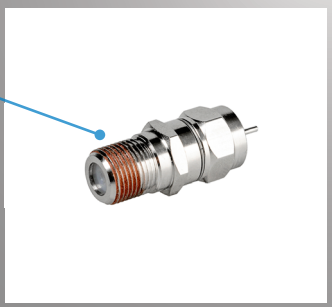
ORDERING INFORMATION

BAR-FMA	Adapter F Female to BarrIER F Male	
BAR-MFA	Adapter F Male to BarrIER F Female	
BAR-MFA-TOOL	Fitting tool for BAR-MFA	

DRY-LOCK ADHESIVE
that activates when the product is tightened

The BarrIER Adapter
CANNOT
be tampered with

and it
CANNOT
be removed
easily



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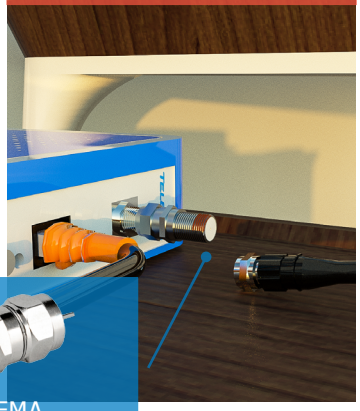
BarrIER® EXAMPLE RETROFIT HOME INSTALLATION

1 Locate the clients Customer Premise Equipment

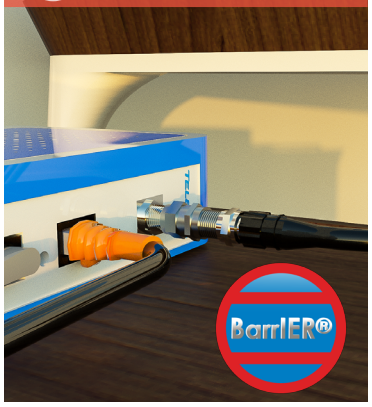
2 Remove existing RF connector

BAR-FMA

3 Fit BarrIER connector to Customer Premise Equipment



4 Re-fit existing RF connector

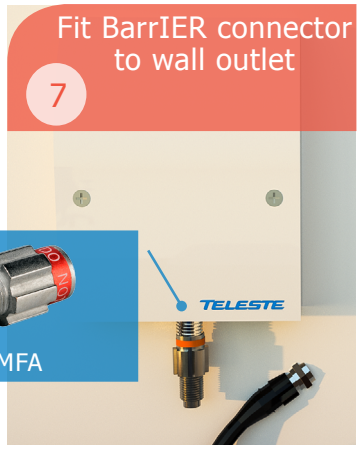


5 Locate wall outlet network

6 Remove existing RF connector

BAR-MFA

7 Fit BarrIER connector to wall outlet



8 Re-fit existing RF connector