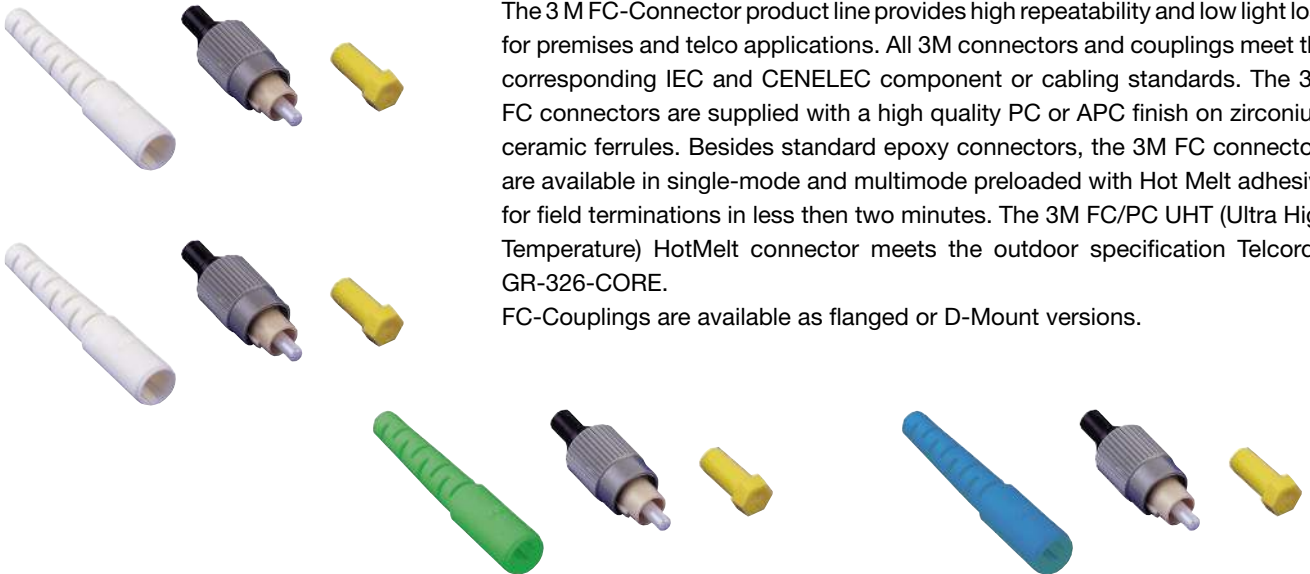




3M™ Fibre Optic Connectivity

FC-Connectors and Couplings



The 3M FC-Connector product line provides high repeatability and low light loss for premises and telco applications. All 3M connectors and couplings meet the corresponding IEC and CENELEC component or cabling standards. The 3M FC connectors are supplied with a high quality PC or APC finish on zirconium ceramic ferrules. Besides standard epoxy connectors, the 3M FC connectors are available in single-mode and multimode preloaded with Hot Melt adhesive for field terminations in less than two minutes. The 3M FC/PC UHT (Ultra High Temperature) HotMelt connector meets the outdoor specification Telcordia GR-326-CORE.

FC-Couplings are available as flanged or D-Mount versions.

Features

Epoxy FC Connectors

- According to IEC / CENELEC standards
- Independent ferrule/backbone assembly
- Keyed threaded connector
- High strength thermoplastic housing
- Zirconium ceramic ferrule
- Pre-radiused PC-Finish

Hot Melt FC Connectors

- Pre-loaded Hot Melt adhesive versions
- Fast cure time
- No crimping required
- Unlimited adhesive shelf life
- Zirconium ceramic ferrule
- Pre-radiused PC-Finish
- UHT Hotmelt

Benefits

- Rugged reliable performance
- Excellent pull proof performance
- High repeatability, improved stability
- Eliminates flaking
- High performance over temperature range
- Consistent performance with low reflection

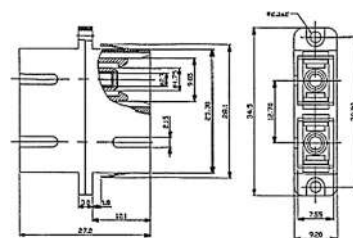
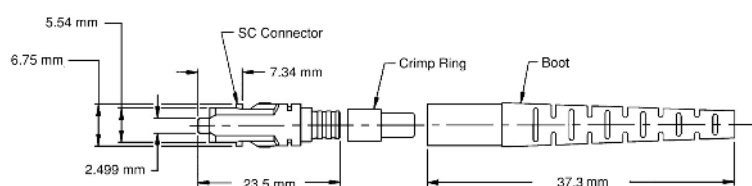
- No epoxy to mix, no shelf life, no waste
- Quicker installation, saves time
- Fewer tools, saves time
- Eliminates outdated epoxy inventory
- High performance over temperature range
- Consistent performance with low reflection
- Meets Telcordia GR-326-CORE outdoor specification

Specifications:

3M™ FC Connectors	Multimode		Singlemode			
Product Number FC/APC	6200	6202	8203 8204	8208	8200	8206
Connector Type	Hot Melt Ceramic	Epoxy Ceramic	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic
Ferrule hole size (µm) for nominal size 125 µm	125	125	126 127	126	126	126
Insertion Loss (dB) typical field mount (one-mated pair) @ 1300 nm	<0,2	<0,2	<0,3	<0,2	<0,2	<0,2
Reflection (dB) typical field mount	-25	-25	-45	-55	-40	-65
Connecteur durability (dB) change after 200 matings	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2
Operating temperature connector only	-40° to 85° C	-40° to 85° C	-40° to 85° C	-40° to 100° C	-40° to 85° C	-40° to 85° C
Storage temperature	-40° to 85° C	-40° to 85° C	-40° to 85° C	-40° to 100° C	-40° to 80° C	-40° to 85° C
Cable Tension` Straight pull at 90N Side pull at 13	<0,5 dB increase <0,5 dB increase	<0,5 dB increase <0,5 dB increase	<0,5 dB increase <0,5 dB increase	<0,5 dB increase <0,5 dB increase	<0,5 dB increase <0,5 dB increase	<0,5 dB increase <0,5 dB increase
Testing Specifications*	ISO/IEC	ISO/IEC	TelcordialSO/IEC	TelcordialSO/IEC	ISO/IEC	TelcordialSO/IEC
Material Connector ferrule Connector housing Boot	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector identification ** Backbone Coupling nut Boot**	Beige Black White	Black Black Geige	Black Grey White	Black Grey Blue	Black Grey White	Beige Green Green
Field termination kit*** 230 V	6361	8361	8361	6361	6361	Conversion kit

* ISO 11801, EN50173, ** Note: other boot colours are available, ***See seperate datasheet fot Termination Kit

3M™ FC Couplings	Multimode		Singlemode	
Product Number	6210	8210	8211	8211 APC
Housing design	Square flanged	Square flanged	D-Mount	D-Mount
Operating temperature	-40° to 85° C	-40° to 85° C	-40° to 85° C	-40° to 85° C
Material Sleeve Housing	Phosphore Bronze Metal	Zirconia Ceramic Metal	Zirconia Ceramic Metal	Zirconia Ceramic Metal



Ordering information:

FC Connectors						
Ref.-No.	6200	6202	8203 8204	8208	8200	8206 FC/APC
Connector Type	Hot melt Ceramic	Epoxy Ceramic	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot melt Ceramic	Epoxy Ceramic
Packaging	1/pkg. 60/cs	1/pkg. 60/cs	1/pkg. 60/cs	1/pkg. 60/cs	1/pkg. 60/cs	1/pkg. 60/cs
Minimum order*	60 each	60 each	60 each	60 each	60 each	60 each

* Bulk Packages of 1000 ea are available upon request

FC Couplings				
Ref.-No.	6210	8210	8211	8211 APC
Packaging	1/cd.	1/cd.	1/cd.	1/cd.
Minimum order*	1 each	1 each	1 each	1 each

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