

FC to FC Patch cord, 1 fibre, tight-buffered cable, LSZH, 2.8 mm legs

E9/125 SMF-28® ULTRA TB, 7 m

CORNING

Patch cables are used for non-permanent connections between patch panels, transmission equipment, etc. Pre-assembled cables allow for the implementation of complete Plug & Play solutions. When such a solution is adopted with accurate dimensioning and appropriate cable routing, it is possible to install even large cabling systems rapidly.

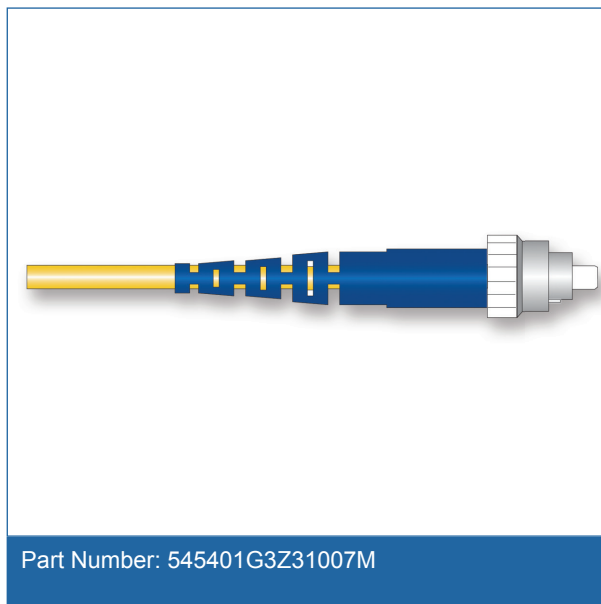
Features and Benefits

Connectors

- FC connector according to TIA/EIA-604 -4
- All connectors are tested to FOTP -21.
- Connectors are pre-radius polished to provide the optimal end-face geometry for long-term performance.

Cable

- Low smoke (IEC 61034) and zero-halogen (LSZH), flame retardant to IEC 60332-3-24 (C) and noncorrosive to IEC 60754-2 (FRNC)
- Cables are metal free; hence, there are no ground-loop or potential-equalization problems. Completely dry design (without gel)
- Colour of outer sheath: OM1, OM2 – orange; OM3, OM4 – turquoise; OS2 – yellow



Standards

Intermateability TIA/EIA-604-4 / TIA/EIA-604-4

Specifications

General Specifications	
Flame rating	LSZH™/FRNC
Cable assembly type	Single Fibre
Fibre Category	SMF-28® Ultra fibre

Temperature Range	
Operation	-10 °C to 60 °C
Installation and assembly	-5 °C to 50 °C
Storage	-10 °C to 60 °C

FC to FC Patch cord, 1 fibre, tight-buffered cable, LSZH, 2.8 mm legs

E9/125 SMF-28® ULTRA TB, 7 m

CORNING

Design - Connector A

Connector type	FC
Ferrule Material	Ceramic
Polish	UPC
Housing material	Metal
Housing Colour	Nickel
Boot type	Individual
Boot colour	Blue
Keyed (security)	No

Mechanical Specifications - Connector A

Durability	≤ 0.2 dB 1000 rematings, FOTP-21
Tensile strength jacketed cable	44 N

Optical Specifications - Connector A

Insertion loss, typical	0.15 dB
Insertion loss, max.	0.4 dB
Reflectance, typical	≤ -59 dB

Design - Connector B

Connector type	FC
Ferrule Material	Ceramic
Polish	UPC
Housing material	Metal
Housing Colour	Nickel
Boot type	Individual
Boot colour	Blue
Keyed (security)	No

Mechanical Specifications - Connector B

Durability	≤ 0.2 dB 1000 rematings, FOTP-21
Tensile strength jacketed cable	44 N

FC to FC Patch cord, 1 fibre, tight-buffered cable, LSZH, 2.8 mm legs

E9/125 SMF-28® ULTRA TB, 7 m

CORNING

Optical Specifications - Connector B

Insertion loss, typical	0.15 dB
Insertion loss, max.	0.4 dB
Reflectance, typical	≤ -59 dB

Cable Design

Fibre count	1
Outer diameter	2.8 mm
Outer jacket colour	Yellow
Outer jacket material	LSZH™/FRNC
Minimum Bend Radius	14 mm
Crush resistance (reversible)	1000 N/10 cm
Tensile strength	200 N

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

Fibre Specifications

Optical Characteristics (cabled)

Fibre name	SMF-28® Ultra TB Cable Optical Fibre
Mode-Field Diameter at 1310 nm	9.2 µm
Fibre code	Z
Coating diameter	242 µm
Cladding diameter	125 µm
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.38 dB/km / 0.38 dB/km / 0.25 dB/km
Serial 1 gigabit ethernet	5000 m / -
Serial 10 gigabit ethernet	10000 m / 40000 m
Cable cutoff wavelength	1260 nm
Dispersion in the range 1285 to 1330 nm	≤ 3.5 ps / (nm * km)
Dispersion @ 1550 nm	≤ 18 ps / (nm * km)
PMD Link Design Value	≤ 0.04 PS / √km
PMD maximum individual fibre	≤ 0.1 PS / √km
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

Notes: 1) Contact a Corning Customer Care Representative for additional information

FC to FC Patch cord, 1 fibre, tight-buffered cable, LSZH, 2.8 mm legs

E9/125 SMF-28® ULTRA TB, 7 m

CORNING

Fibre Specifications

Optical Characteristics (cabled)	
PMD maximum individual fibre	≤ 0.1 PS / $\sqrt{\text{km}}$
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

Notes: 1) Contact a Corning Customer Care Representative for additional information

Ordering Information

Part Number	545401G3Z31007M
Product Description	FC to FC patch cord on single-fibre cable, with an outer diameter of 2.8 mm and a low-smoke, zero-halogen sheath. Length is variable.
Length	7 m
Weight	0.07 kg

Shipping Information

Packing type	Cardboard box
Packing dimensions (L x W x H)	380 mm x 250 mm x 180 mm
Units Per Delivery	1/1



Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY
00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified.
© 2018 Corning Optical Communications. All rights reserved.