E9/125 SMF-28® ULTRA TB, 5 m



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



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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



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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



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### Fibre Specifications

Optical Characteristics (cabled)	
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

### **Ordering Information**

Part Number	545401G3Z31005M
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	5 m
Weight	0.05 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



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