

Quasar OptiX Field Mountable Connectors

Saving installation and maintenance time while reducing tooling requirements and improving system reliability, Quasar OptiX Field Mountable Connectors (FMCs) enable field installers to quickly and easily fit factory-polished connectors to optical cables used in protected outdoor environments subject to extreme temperatures.

ADVANTAGES AND FEATURES

Allows faster installations in the field while reducing downtime and maintenance costs

Assembling and installing the connector takes as little as two minutes and requires no curing or polishing steps.

Improves signal strength and network integrity

The high fiber retention force maintains constant connectivity while the factory-polished connector interfaces help reduce signal loss.

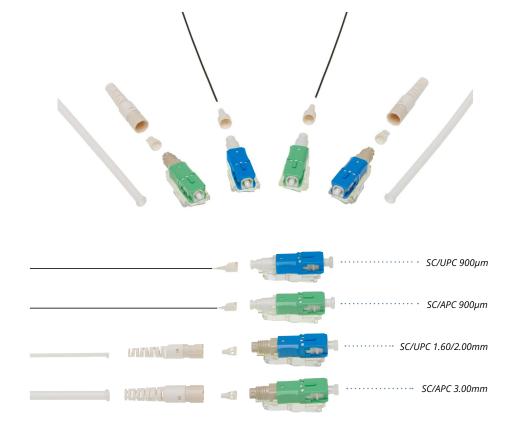
Simplifies requirements for on-site installation of fiber optic cables

Minimal operating skills are necessary with only strip, cleaving and visual fault locator (VFL) tools, reducing fixture costs when compared with expensive fusion splicers. Terminations can be done in exposed areas in bad weather, unlike fusion splicing operations, where equipment damage can occur.

Supports use in protected outdoor environments

Reliable performance in a wide temperature range—from -40 to +75°C, depending on cable type—enables outdoor installation in regions with extreme temperature variations.

Connector	SC
Cable	Bare fiber (250 or 900µm), jacketed cable (1.60, 2.00 or 3.00mm diameter)
Fiber Type	Single mode
Industry Standards	IEC61754-4, ANSI/TIA-568.3-E
Insertion Loss	UPC: 0.2 dB (typ.), 0.5 dB (max.) APC: 0.3 dB (typ.), 0.6 dB (max.)
Return Loss	UPC: -50 dB (typ.), -45 dB (max.) APC: -55 dB (typ.), -50 dB (max.)
Mating Durability	500 cycles min. with <1 dB change
Cable Retention Force	250µm: 2 N/5 sec. 0/90 deg. 900µm: 5 N/5 sec. 0/90 deg. 1.60, 2.00 or 3.00mm: 50 N/5 sec. 0/90 deg.
Operating Temperatures	250 or 900µm: -40 to +75°C 1.60, 2.00 or 3.00mm: -25 to +70°C





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MARKETS AND APPLICATIONS

Telecommunications

Broadband service provider installations Fiber to the x (FTTX) architectures Distributed access/remote PHY systems

Networking

Fiber to the home devices

Wireless Infrastructure

Radio access network devices



Broadband Service Provider Installations



Fiber to the Home Devices



Radio Access Network Devices

SPECIFICATIONS

Reference Information

Packaging: Individually bagged; in bags of 10; in boxes of 100

Standards:

IEC61754-4

ANSI/TIA-568.3-E

Cable Types:

Bare fiber (250 or 900µm), jacketed cable (1.60, 2.00 or 3.00mm diameter)

Contact Face: Angled physical contact (APC)

or ultra physical contact (UPC)

Connector Type: SC

Designed in: Millimeters

RoHS: Yes

Optical

Insertion Loss (Single Mode):

UPC: 0.2 dB (typ.), 0.5 dB (max.)

APC: 0.3 dB (typ.), 0.6 dB (max.)

Return Loss (Single Mode):

UPC: -50 dB (typ.), -45 dB (max.)

APC: -55 dB (typ.), -50 dB (max.)

Mechanical

Coupling Strength:

Tensile Load: 40 N/5 sec.

Cable Retention:

250µm: 2 N/5 sec. 0/90 deg.

900μm: 5 N/5 sec. 0/90 deg.

1.60, 2.00 or 3.00mm: 50 N/5 sec. 0/90

Mating Durability (min.): 500 cycles with

<1 dB change (typ.)

Physical

Connector Housings:

Outer and Inner: PBT, UL94 V-0

Boot: TPE, UL94 V-0

Ferrule Material: Zirconia ceramic

Operating Temperatures:

250 or 900μm: -40 to +75°C

1.60, 2.00 or 3.00mm: -25 to +70°C