

Product Family: LANscape® Field installable connectors

Product: UniCam® SC - APC connectors (Pretium Tool Compliant)

Fibre: SMF-28+™ OS2

Description

The field-installable UniCam® APC connector is the ideal solution to minimize back reflectance from laser sources, a critical requirement for applications such as analogue video. UniCam APC Connectors, with their 8° angled end-face and factory polish, dramatically reduce reflectance. The quick installation reduces the total installed cost of connectorization, making the UniCam connector cost-effective for all fibre applications, from the main cross-connect to the workstation. The UniCam connector can best be described as a mini pigtail. It incorporates a factory-installed fibre stub that is fully bonded in the ferrule. The other end is precisely cleaved and placed into the patented alignment mechanism of a mechanical splice. Both the field fibre and fibre stub are fully protected from environmental factors. Unlike other no-epoxy, field-installable connectors requires the UniCam connector no polishing.

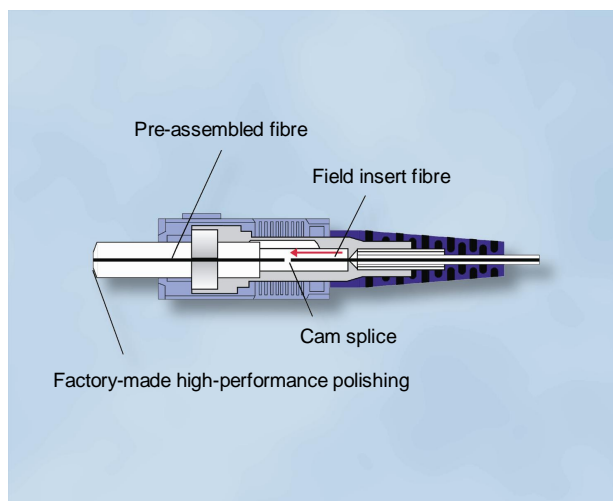
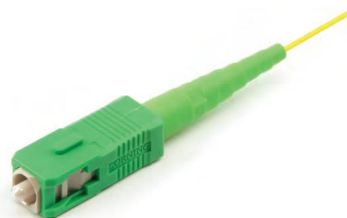
The unique features of the UniCam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual go/no go feedback system during field installation.

Applications

The field-installable UniCam® APC connector versions provide a high-quality, quick and reliable connector installation on site. The direct termination on tight buffer, loose- or central tube cables do not require any additional accessories. The high quality end face, controlled during the production process in the factory, reduces field technician influence to a minimum. On site, the stripped and cleaved field fibres are inserted into the UniCam connectors and retained. A mechanical splice inside the connector establishes the low-loss connection between the field fibre and the preinstalled fibre inside the connector.

Features / Benefits

- Fastest termination time in the industry:
Less than 1 min with single fibre possible
- Pretium Tool Kit gives immediate go/no go feedback of successful termination
- Minimal UniCam Pretium Tool Kit allows reduced setup time; universal assembly tool terminates all SC UniCam Connector directly on 250µm bare fibres or tight buffer
- Dimensions for fibre preparation are printed on the connector kit package



Characteristics

Connector type	SC/APC
Ferrule	Ceramic
Connector body	Composite
Insertion loss, typical (dB)	0.40
Insertion loss, maximum (dB)	0.75
Reflectance typical (dB) at 23° +/- 5°	-60
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles
Max. Tensile load Connector ≤ 0.2 change	2N on 250µm Bare fibre, 4N on 900µm, 44N on cable
Temperature in operation	0°C to 60°C , meets TIA/EIA 568-B.3

Connectors according to standard

SC	TIA/EIA 604-3 / IEC 61754-4
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Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OS2 (E9) APC	Green	Green

Contents Single pack

Connector type	Connector / Housing / Dustcab	Tube	Boot 900µm	Boot 2.0mm	Boot 2.9mm
SC/APC	X		X		X
SC/APC 250	X	X	X		

Optical Characteristics of fibres:

Laser optimised single-mode fibre 9/125 µm, SMF 28+™ OS2

Mode-Field diameter at 1310: $9.2 \pm 0.4 \mu\text{m}$

Mode-Field diameter at 1550: $10.4 \pm 0.5 \mu\text{m}$

Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2, Telcordia GR20.

Order information

SC Pretium™

Ordering number	Description SC Connectors	Fibre type
95-200-44	UniCam SC/APC-Connector with Ceramic ferrule, single pack	OS2
95-200-44-Z	UniCam SC/APC-Connector with Ceramic ferrule, organizer pack	OS2
95-200-44P	UniCam SC/APC-250µm Connector with Ceramic ferrule, single pack	OS2
95-200-44P-Z	UniCam SC/APC-250µm Connector with Ceramic ferrule, organizer pack	OS2

Minimum Order Quantity is 25 pcs.

Order Quantity in multiples of 25 pcs for organizer pack.