3   Fibre Termination

CORNING

Product Family: **LANscape® Field Installable Connectors**

Product: **UniCam® Pretium ST, SC and LC Connectors**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e+™ OS2**

Description

The UniCam® Pretium Connector is the ideal solution for all your field-installable fibre optic connector requirements. 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, the UniCam Connector requires no polishing.
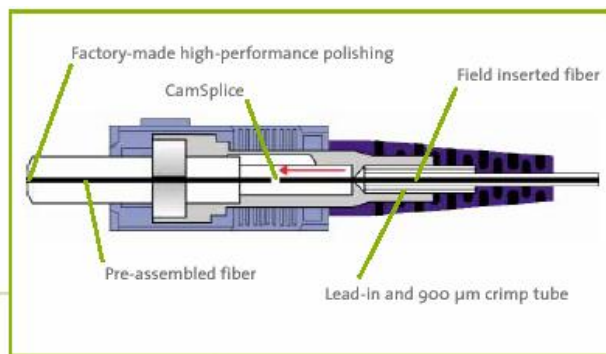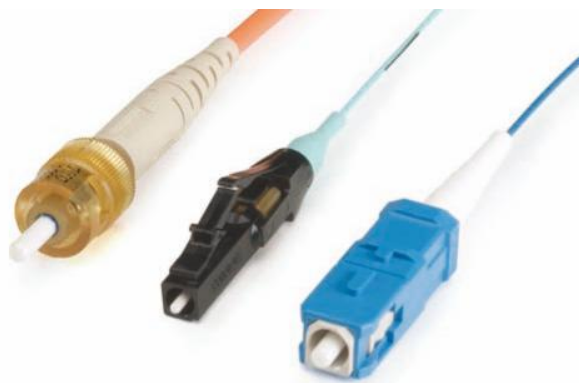
The unique features of the Unicam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual feedback system during field installation.
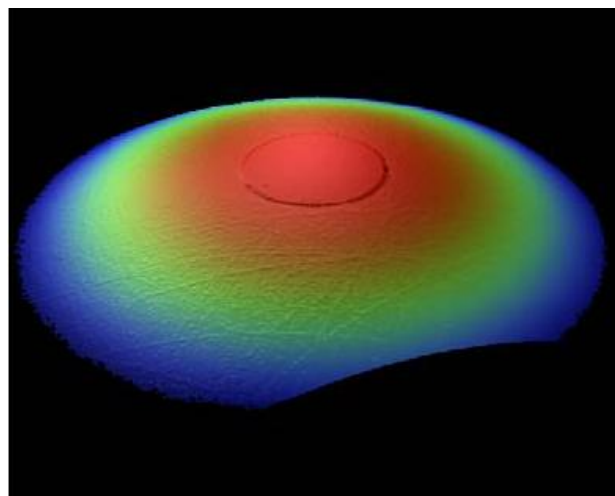
Applications

All field-installable UniCam® Pretium connector versions provide a high-quality alternative to epoxy and polish connectors. They provide simple, quick and reliable connector installation on site. Fibre stubs are pre-installed in the ferrules of the UniCam connectors at the factory, thus eliminating the critical epoxy and polish operations in the field. This approach also allows the necessary high quality, controlled end face processing to be performed as part of the production process in the factory, thus reducing 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 connector
- Continuity- Test-Set gives immediate go/no go feedback of successful termination

UniCam principle

3-D view from polished end face of a Unicam connector

CORNING

Characteristics

Connector type	ST/PC	SC/PC	LC/PC
Ferrule	Ceramic	Ceramic	Ceramic
Connector body	Composite	Composite	Composite
Insertion loss, typical (dB) MM	0.10	0.10	0.10
Insertion loss, max. (dB) MM	0.50	0.50	0.50
Reflectance Multimode typical (dB) MM PC OM1/OM2	≤ -20	≤ -20	≤ -20
Reflectance Multi Mode typical (dB) MM PC OM3	≤ -26	≤ -26	≤ -26
Insertion loss, typical (dB) SM	0.20	0.20	0.20
Insertion loss, max. (dB) SM	0.50	0.50	0.50
Reflectance Single-Mode typical (dB) MM UPC	≤ -55**	≤ -55**	≤ -55**
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles		
Max. Tensil load Connector	44N on 2.0mm and 2.8mm Legs / Cable		
Max. Tensil load Connector	4N on 900µm Legs / Tight Buffer		
Temperatur in operation	-40°C to 75°C		
Temperature cycling to FOTP-3	☐IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles		

* The insertion loss values is only for using Unicam Pretium Tool Kit. When using the standard Tool Kit the values are 0,3dB typical and 0.75 maximum.

** Please Note: The reflectance values are for 18° to 26° C

Connectors according to standard

SC	TIA/EIA 604-3 / IEC 61754-4
ST compatible	TIA/EIA 604-2 / IEC 61754-2
LC	TIA/EIA 604-10A / IEC 61754-20

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OM3 (50µm)	Black	Aqua
OM2 (50µm)	Black	Black
OM1 (G62,5µm)	Beige	Black
OS1/OS2 (E9) UPC	Blue	Blue

Contents Single pack

Connector type	Connector	Crimp ring	Boot 900µm	Boot 2.0mm	Boot 2.8mm
SC	X	X	X		X
ST compatible	X	X	X		X
LC	X	X	X	X	X

Optical Characteristics of fibres:

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® SX+ OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and
IEC 60793-1-49 Ed 2.0.

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® 600 OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multi-mode fibre 62.5/125 µm, InfiniCor® 300 OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 $\pm$ 0.4 µm
Mode-Field diameter at 1550: 10.4 $\pm$ 0.5 µm
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

Ordering number	Description **SC** Connectors	Fibre type
95-000-41	Unicam SC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-41	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-41-X	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-42	Unicam SC/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

ST

Ordering number	Description **ST** Connectors	Fibre type
95-000-51	Unicam ST-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-51	Unicam ST-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-51-X	Unicam ST-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-52	Unicam ST/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

LC

Ordering number	Description **LC** Connectors	Fibre type
95-000-99	Unicam LC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-99	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-99-X	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-99	Unicam LC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

Minimum Order Quantity in multiples of 25 pce

CORNING

RoHS COMPLIANT

Product Family: **LANscape® Field Installable Connectors**

Product: **UniCam® Classic ST, SC, FC & MT-RJ Connectors**

Fibre: **InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e+™ OS2**

Description

The UniCam® Standard Connectors are the ideal solution for all your field-installable fibre optic connector requirements. 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, the UniCam Connector requires no polishing.
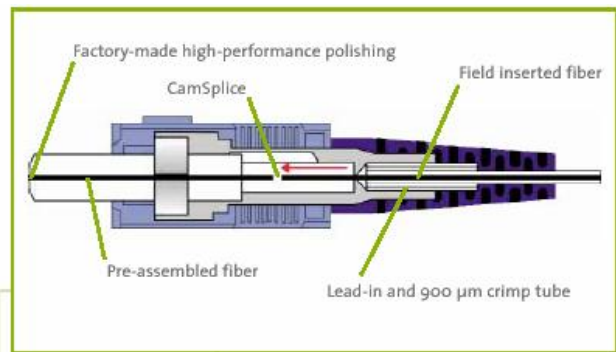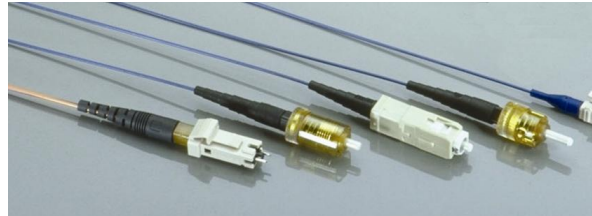
The unique features of the Unicam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual feedback system during field installation.
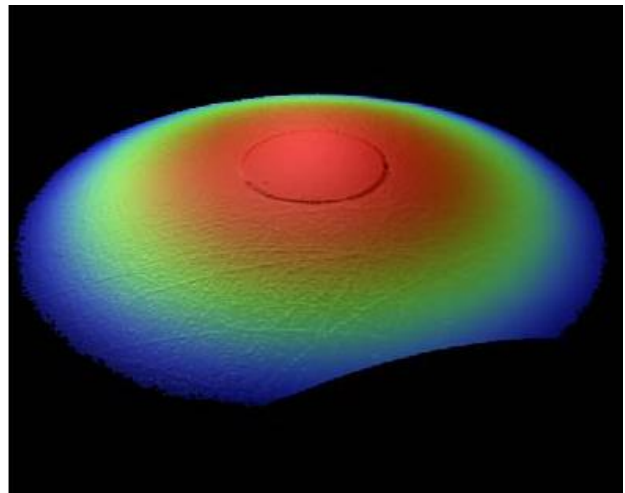
Applications

The field-installable UniCam® connector versions provide a high-quality alternative to epoxy and polish connectors. They provide simple, quick and reliable connector installation on site. Fibre stubs are pre-installed in the ferrules of the UniCam connectors at the factory, thus eliminating the critical epoxy and polish operations in the field. This approach also allows the necessary high quality, controlled end face processing to be performed as part of the production process in the factory, thus reducing 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 connector
- Fastest termination time in the industry: less than 3 min with MTRJ connector
- Continuity- Test-Set gives immediate go/no go feedback of successful termination
- Minimal tool kit, reduced setup time; universal assembly tool terminates all single- and 2-fiber UniCam Connector styles

Factory-made high-performance polishing

CamSplice

Field inserted fiber

Pre-assembled fiber

Lead-in and 900 µm crimp tube

UniCam principle

3-D view from polished endface of a Unicam connector

CORNING

RoHS COMPLIANT

Characteristics

Connector type	ST/PC	SC/PC	FC/PC	MTRJ
Connector body	Composite	Composite	Composite	Composite
Ferrule **multimode**	Composite	Composite	Ceramic	Composite
Insertion loss, typical (dB) MM	0.30	0.30	0.30	0.30
Insertion loss, max. (dB) MM	0.75	0.75	0.75	0.75
Reflectance Multimode typical (dB) MM PC OM1/OM2	≤ -20	≤ -20	≤ -20	≤ -20
Reflectance Multi Mode typical (dB) MM PC OM3	-	-	-	≤ -20
Ferrule **singlemode**	Ceramic	Ceramic	Ceramic	Composite
Insertion loss, typical (dB) SM	0.20*	0.20*	0.30	-
Insertion loss, max. (dB) SM	0.50*	0.50*	0.75	-
Reflectance Single-Mode typical (dB) MM UPC	-	-	≤ -55**	-
Reflectance Single-Mode typical (dB) MM SPC	≤ -40**	≤ -40**	≤ -40**	-
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles			
Max. Tensil load Connector	44N on 2.0mm and 2.8mm Legs / Cable			
Max. Tensil load Connector	4N on 900µm Legs / Tight Buffer			
Temperatur in operation	0°C to 60°C			
Temperature cycling to FOTP-3	□IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles			

* The insertion loss values is only for using Unicam Pretium Tool Kit. When using the standard Tool Kit the values are 0,3dB typical and 0.75 maximum.

** Please Note: The reflectance values are for 18° to 26° C

Connectors according to standard

SC	TAI/EIA 604-3 / IEC 61754-4
ST compatible	TAI/EIA 604-2 / IEC 61754-2
FC	TAI/EIA 604-4 / IEC 61754-13
MT-RJ	TAI/EIA 604-12 / IEC 61754-18

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OM3 (50µm)	Black	Aqua
OM2 (50µm)	Black	Black
OS2 (E9)	Blue	Blue
OS1/OS2 (E9) SPC	Blue	White

Contents Single pack

Connector type	Connector	Crimp ring	Boot 900µm	Boot 2.0mm	Boot 2.8mm
SC	X	X	X		X
ST compatible	X	X	X		X
FC	X	X	X		X
MT-RJ	X	X			X

Optical Characteristics of fibres:

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® SX+ OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and
IEC 60793-1-49 Ed 2.0.

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® 600 OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multi-mode fibre 62.5/125 µm, InfiniCor® 300 OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 $\pm$ 0.4 µm
Mode-Field diameter at 1550: 10.4 $\pm$ 0.5 µm
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

Ordering number	Description **SC** Connectors	Fibre type
95-000-40	Unicam SC-Connector with composite ferrule, Multimode 62,5µm	OM1
95-050-40	Unicam SC-Connector with composite ferrule, Multimode 50µm	OM2
95-200-41	Unicam SC/SPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

ST

Ordering number	Description **ST** Connectors	Fibre type
95-000-50	Unicam ST-Connector with composite ferrule, Multimode 62,5µm	OM1
95-050-50	Unicam ST-Connector with composite ferrule, Multimode 50µm	OM2
95-200-51	Unicam ST/SPC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

FC

Ordering number	Description **FC** Connectors	Fibre type
95-000-61	Unicam FC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-200-61	Unicam FC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2
95-200-62	Unicam FC-Connector with Ceramic ferrule, Single-mode 9µm	OS1/OS2

*Please Note: This Connector may not be used with Unicam Pretium Tool Kit

MT-RJ with Pins

Ordering number	Description **MT-RJ** Connectors with pins	Fibre type
92-001-97-P-E	Unicam MT-RJ Connector with pins Composite ferrule, Multimode 62,5µm	OM1
92-051-97-P-E	Unicam MT-RJ Connector with pins Composite ferrule, Multimode 50µm	OM2
92-051-97-P-E-X	Unicam MT-RJ Connector with pins Composite ferrule, Multimode 50µm	OM3

*Please Note: This Connector may not be used with Unicam Pretium Tool Kit

MT-RJ without Pins

Ordering number	Description **MT-RJ** Connectors without pins	Fibre type
92-001-97-NP-E	Unicam MT-RJ Connector without pins Composite ferrule, Multimode 62,5µm	OM1
92-051-97-NP-E	Unicam MT-RJ Connector without pins Composite ferrule, Multimode 50µm	OM2
92-051-97-NP-E-X	Unicam MT-RJ Connector without pins Composite ferrule, Multimode 50µm	OM3

*Please Note: This Connector may not be used with Unicam Pretium Tool Kit

Minimum Order Quantity in multiples of 25 pce

CORNING

RoHS COMPLIANT

Product Family: LANscape® Field Installable Connectors

Product: UniCam® 250µm Pretium™ SC and LC connectors

Fibre: InfiniCor® OM3, InfiniCor® OM2, InfiniCor® OM1, SMF-28+™ OS2

Description

The UniCam® 250µm connector is the ideal solution for field-installable fibre optic connector requirements on 250µm bare fibres. 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.
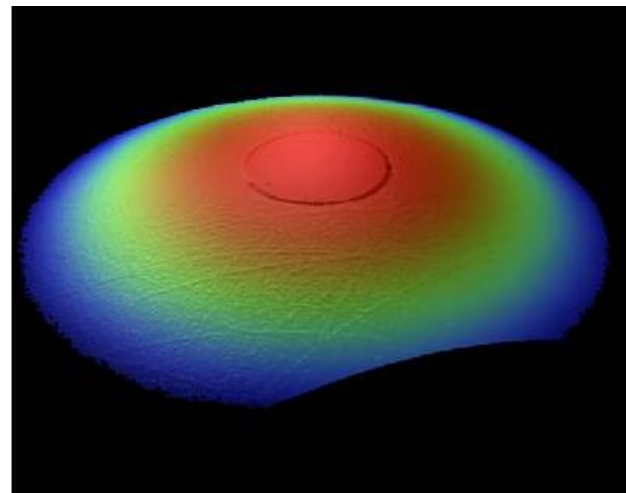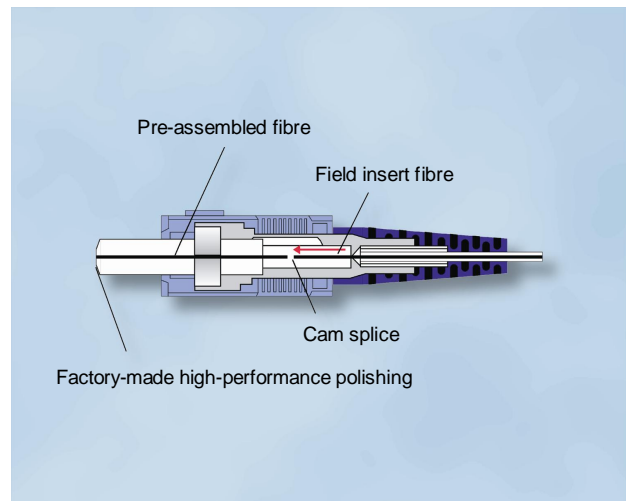
The unique features of the Unicam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual go/no go feedback system during field installation.

Applications

The field-installable UniCam® 250µm connector versions provide a high-quality, quick and reliable connector installation on site. The direct termination on loose- or central tube cables with standard 250µm fibres do not require 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 LC and SC UniCam Connector directly on 250µm bare fibres
- Dimensions for fibre preparation are printed on the connector kit package

Pre-assembled fibre
Field insert fibre
Cam splice
Factory-made high-performance polishing

3-D view from polished endface of a Unicam connector

CORNING

RoHS COMPLIANT

Characteristics

Connector type	SC	LC
Ferrule	Ceramic	Ceramic
Connector body	Composite	Composite
Insertion loss*, typical (dB) MM	0.1*	0.1*
Insertion loss*, maximum (dB) MM	0.5*	0.5*
Reflectance**Multimode typical (dB) MM/PC OM1/OM2	≤ -20	≤ -20
Reflectance** Multi Mode typical (dB) MM/PC OM3	≤ -26	≤ -26
Insertion loss*, typical (dB) SM*	0.2	0.2
Insertion loss*, maximum (dB) SM*	0.5	0.5
Reflectance**Single-Mode typical (dB) SM/UPC OS2	≤ -55**	≤ -55**
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles	
Max. Tensil load Connector	2N on 250µm Bare fibre with ≤ 0.2 change	
Temperatur in operation	-40°C to 75°C	
Temperature cycling to FOTP-3	☐IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles	

*   The insertion loss values is only for using Unicam Pretium Tool Kit. When using the standard Tool Kit the values are 0,3dB typical and 0.75 maximum.

** Please Note: The reflectance values are for 18° to 26° C

Connectors according to standard

SC	TAI/EIA 604-3 / IEC 61754-4
LC	TAI/EIA 604-10A / IEC 61754-20

Connector Identification according to EIA/TIA-568-C.3 Draft 2006

Colour code:	Housing	Boot
OM3 (50µm)	Black	Aqua
OM2 (50µm)	Black	Black
OM1 (62.5µm)	Beige	Beige
OS2 (E9) UPC	Blue	Blue

Contents Single pack

Connector type	Connector / Housing / Dust cab	Tube	Boot 900µm
SC	X	X	X
LC	X	X	X

Optical Characteristics of fibres:

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and
IEC 60793-1-49 Ed 2.0.

Laser optimised multi-mode fibre 50/125 µm, InfiniCor® OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multi-mode fibre 62.5/125 µm, InfiniCor® OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 $\pm$ 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 $\pm$ 0.4 µm
Mode-Field diameter at 1550: 10.4 $\pm$ 0.5 µm
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
95-000-41P	Unicam SC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-41P	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-41P-X	Unicam SC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-42P	Unicam SC/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS2

LC Pretium™

Ordering number	Description **LC** Connectors	Fibre type
95-000-99P	Unicam LC-Connector with Ceramic ferrule, Multimode 62,5µm	OM1
95-050-99P	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM2
95-050-99P-X	Unicam LC-Connector with Ceramic ferrule, Multimode 50µm	OM3
95-200-99P	Unicam LC/UPC-Connector with Ceramic ferrule, Single-mode 9µm	OS2

Minimum Order Quantity in multiples of 25 pce

CORNING

RoHS COMPLIANT

Product Family: LANscape® Field Installable Connectors

Product: UniCam® Pretium 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 8º 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.
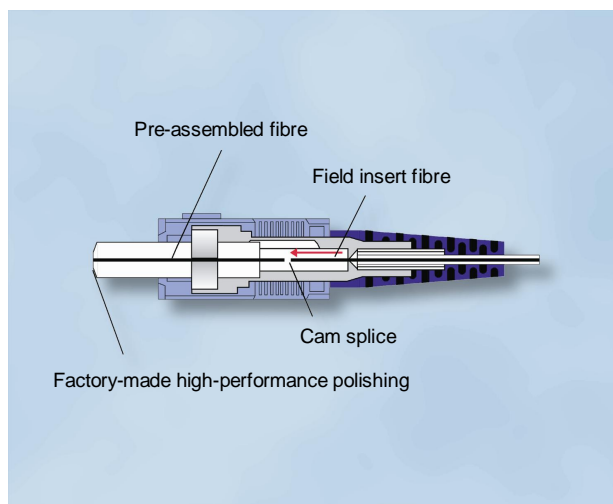
The unique features of the UniCam are the accuracy of the factory polished end face process, 100% quality control of every connector and the visual go/no go feedback system during field installation.

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

Pre-assembled fibre
Field insert fibre
Cam splice
Factory-made high-performance polishing

CORNING

RoHS COMPLIANT

Characteristics

Connector type	SC/APC
Ferrule	Ceramic
Connector body	Composite
Insertion loss, typical (dB) at 18 - 26°	0.40
Insertion loss, maximum (dB) at 0° - 60°	0.75
Reflectance typical (dB) at 18 - 26°	-60
Reflectance maximum (dB) at 0° - 60°	-40
Cycling to FOTP-21	≤ 0.2 dB, 500 cycles
Max. Tensile load Connector ≤ 0.2 change	2N on 250µm Bare fibre, 4N on 900um, 44N on cable
Temperature in operation	0°C to 60°C , meets TIA/EIA 568-B.3

*Please Note: This values are only valid when utilizing the FBC-015 cleaver (blue). Cleaving values: ≤1° +/- 1°

Connectors according to standard

SC	TAI/EIA 604-3 / IEC 61754-4

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 / Dust cab	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 µm
Mode-Field diameter at 1550: 10.4 $\pm$ 0.5 µm
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 in multiples of 25 pce

CORNING

Product Family: LANscape® **Field Installable Connectors**

Product: UniCam® **MTP connectors**

Fibre: InfiniCor® **OM3, InfiniCor**® **OM2, InfiniCor**® **OM1, SMF-28+e™ OS2**
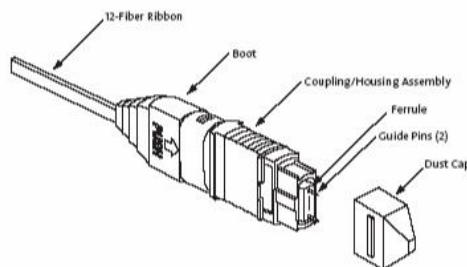
Description

The Corning Cable Systems UniCam® MTP® Connector is the latest innovation in the proven UniCam Connector family. It is the first no epoxy / no-polish, field-installable 12-fibre connector in the industry. It is the ideal solution for applications using 12-fibre ribbons. The UniCam MTP Connector utilizes the same reliable, proven no-epoxy/no polish technology as all other Corning Cable Systems UniCam Connectors. The UniCam MTP Connector installs with the same push-pull reliability as the familiar SC connector.
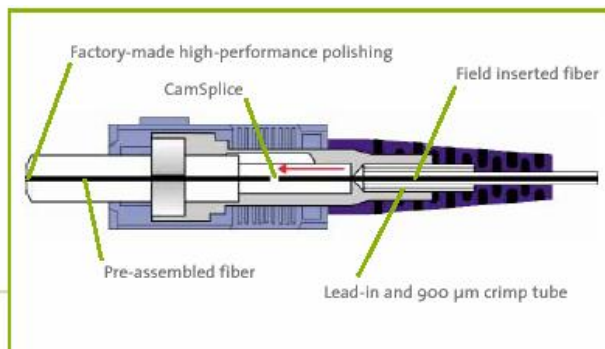
Application

The field-installable UniCam MTP connector versions provide simple, quick and reliable connector installation on site. Fibre stubs are pre-installed in the ferrules of the UniCam connectors at the factory, thus eliminating the critical epoxy and polish operations in the field. On site, the stripped and cleaved field fibres are inserted into the UniCam MTP 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. The UniCam MTP connector is installable on bare ribbon or ribbon interconnect cables.

Features / Benefits

- Repair of Plug & Play™ Systems trunk cables
- Terminates jacketed or bare 12-fiber ribbons in less than five minutes
- Alignment achieved with precision guide pins
- IEEE-802.3, Fibre Channel and ANSI/TIA/EIA-568 B.3 compliant

CORNING

Characteristics

Parameter:	Multimode & Single-Mode	
Standard	TAI/EIA 604-5	
Insertion loss, typical (dB	≤ 0.5 dB typ.	≤ 1.0 dB max.
Reflectance Multi Mode typical (dB) MM PC OM3	≤ -20dB for Ultra PC	
Reflectance Single-Mode typical (dB) MM PC OS2	≤ -55dB for Ultra APC	
Cycling to FOTP-21	≤ 0.2 dB, 200 cycles	
Max. Tensil load Connector	≤10N Ribbon Inter connect	
Temperature cycling to FOTP-3	□IL ≤ 0.3 dB, -40 – +75 °C, 21 cycles	

* Please Note: The reflectance values are for 18° to 28°

Optical Characteristics of fibres:

Laser optimised multimode fibre 50/125 µm, InfiniCor® OM3
Laser bandwidth at 850 nm: 2000 MHz·km
Fibre core diameter: 50.0 + 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAC-A, IEC 60793-2-10 Type A1a.2, ISO/IEC 11801 OM3.
Fibre tested using minEMBc method, according to TIA/EIA 455-220, IEC 60793-2-10 Ed 2.0 and
IEC 60793-1-49 Ed 2.0.

Laser optimised multimode fibre 50/125 µm, InfiniCor® OM2
Laser bandwidth at 850 nm: 585 MHz·km
Fibre core diameter: 50.0 + 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAB; IEC 60793-2-10 Type A1a.1; ISO/IEC 11801 OM2.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised multimode fibre 62.5/125 µm, InfiniCor® OM1
Laser bandwidth at 850 nm: 220 MHz·km
Fibre core diameter: 62.5 + 2.5 µm
Fibre meets or exceeds standards: TIA/EIA 492AAAA; IEC 60793-2-10 Type A1b.1; ISO/IEC 11801 OM1.
Fibre tested using RML method, according to TIA/EIA 455-204 and IEC 60793-1-41.

Laser optimised single-mode fibre 9/125 µm, SMF 28e+™ OS2
Mode-Field diameter at 1310: 9.2 + 0.4 µm
Mode-Field diameter at 1550: 10.4 + 0.5 µm
Fibre meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS2,
Telcordia GR20.

Order information

Ordering number	Fibre type	Ferrule	Housing	Colour housing	Colour boot
93-001-69	62.5µ/OM1	Composite without pins	Composite	Beige	Beige
93-051-69	50µ/OM2	Composite without pins	Composite	Black	Black
93-051-69-X	50µ/OM3	Composite without pins	Composite	Black	Aqua
93-201-69	9µ/OS2	Composite without pins	Composite	Black/Green	Green
93-001-70	62.5µ/OM1	Composite with pins	Composite	Beige	Beige
93-051-70	50µ/OM2	Composite with pins	Composite	Black	Black
93-051-70-X	50µ/OM3	Composite with pins	Composite	Black	Aqua
93-201-70	9µ/OS2	Composite with pins	Composite	Black/Green	Green

Quantity per delivery unit: 1/1

CORNING

Product Family: **LANscape® Field Installable Connectors Tool-Kits**

Product: **UniCam® Single Fibre Connectors Tool-Kits**

Fibre: **OM3 Pretium™ 300, OM2 Pretium™ 150, InfiniCor® 300 OM1, SMF-28e™ OS1/OS2**

Applications

The Corning Cable Systems' UniCam® tool-kits are intended for the installation of all Corning Cable Systems' UniCam® connectors.
Tool kits with different equipment are available also for installation of a special group of connectors.

Description

Corning Cable Systems' tool kits for field installable connectors provide with a collection of essential tools required for tasks associated with the termination of fibre optic cable. The tools are thoughtfully assembled and are stored in compact and easy to carry cases that are lined with a foam-padding material in order to protect the high-quality tools.

The TKT-UNICAM-PFC includes a lightweight, handheld installation tool with an immediate go/no-go feedback signal, providing unmistakable confirmation of a successful termination. The kit's high-performance cleaver has an integrated fibre scrap bin and a dual-clamp precision hold for the field fibre, with a diamond blade to achieve a superior cleave. The UniCam Pretium Tool Kit can be used with multimode or singlemode LC, SC and ST® Compatible UniCam Connectors (standard and Pretium-performance), and is required to achieve Pretium-Performance specifications for UniCam Pretium-Performance singlemode Connectors.

The classic UniCam Connector Installation Tool Kit (TKT-UNICAM) is a basic installation tool kit and can be used to terminate all single- UniCam Connector styles (SC, LC and ST compatible). UniCam Multimode Connectors (SC, LC and ST compatible) can achieve high-performance with the use of this tool.

The UniCam Connector Installation Tool Kit with Continuity Test Set (TKT-UNICAM-CTS) provides a visual feedback feature when terminating UniCam SC, LC or ST Compatible Connectors. Useful for reducing scrap rates or for training new installers, the TKT-UNICAM-CTS-SF is very popular, since the installer can watch for the red glow in the back of the connector to dim or disappear. This indicates that the field fibre is inserted properly in the connector.

UniCam® Pretium Tool Kit

UniCam® CTS-SF Tool Kit

UniCam® Basic Tool Kit

CORNING

Features / Benefits UniCam® Pretium™ Tool Kit (TKT-UNICAM-PFC)

- Virtually eliminates human variability in installation, ensuring consistent, reliable results
- UniCam Pretium Installation Tool uses a go/no go LED to provide unmistakable confirmation of a successful termination
- Pretium Cleaver uses dual-clamp precision and a diamond blade for a superior cleave
- About 60 seconds per connector to install
- Sleek, well-organized carrying case with built-in conveniences for easy, on-the-go field terminations.
- Tool kit designed to allow work out of the bag, eliminating set-up and tear-down time
- One kit terminates both singlemode and multimode LC, SC and ST® Compatible Connectors

UniCam Pretium Handheld Tool Kit

Standard UniCam SF Connector Installation Tool Kit with Continuity Test Set (TKT-UNICAM-CTS-SF)

- Convenient carrying bag contains all of the components necessary to terminate UniCam Connectors
- Installs SC, LC and ST compatible connectors in less than two minutes
- One kit terminates singlemode and multimode UniCam
- Connectors CTS option reduces scrap rate and helps train new installers

Pretium Cleaver

Standard UniCam Connector Installation Tool Kit (TKT-UNICAM)

- Convenient carrying bag contains all of the components necessary to terminate UniCam Connectors
- Installs SC, LC and ST compatible connectors in less than two minutes
- One kit terminates singlemode and multimode UniCam

Elite Installation

Cleaver
1-2 Fibers
FBC-001

Standard Score and Snap Cleaver

Tool kits contents

Item	Item code	PFC	CTS-SF	Basic
Pretium UniCam® installation tool with integrated CTS	TL-UCP	1 pce	-	-
UniCam Standard Installation Tool	TL-UC01	-	1 pce	1 pce
UniCam® CTS-SF complete	TEST-UNICAM-CTS-SF	-	1 Set	-
VFL	VFL-350		1 pce	-
SC and ST® Compatible 2.5 mm	VFL-A250	1 pce	-	-
LC Compatible 1.25 mm	VFL-A125	1 pce	-	-
Pretium Flat Cleaver with Diamond Blade and Built-In Fibre Scrap Container	FBC-15	1 pce	-	-
Fibre cleaver, score & snap	FBC-001	-	1 pce	1 pce
Crimp tool, UniCam® aramide	3201007-01	1 pce	1 pce	1 pce
Stripper 6" wire Jensen tool	3206001-01	1 pce	1 pce	1 pce
"Dual-Hole" Miller Tool Fibre Stripper (for 900 µm and 250 µm fibre)	2104502-01	1 pce	1 pce	1 pce
Scissors 5" electrician	100294-01	1 pce	1 pce	1 pce
Tweezers	100312-01	-	1 pce	1 pce
Wipes alcohol	1508001-01	-	6 pce	6 pce
Retractable Permanent Marker	Not sold separately	1 pce	-	-
Standard Capped Permanent	Not sold separately	-	1 pce	1 pce
SC and ST Compatible 2.5 mm Ferrule Cleaning Sticks (10/pack)	2104255-01	1 Pack a 10pce	-	-
LC 1.25 mm Ferrule Cleaning Sticks (10/pack)	2104417-01	1 Pack a 10pce	-	-
Package of Corning Wipes (1Pak = 90sheets)	2104493-01	1 pce	-	-
Bottle of Corning Fibre Cleaning Fluid	FCC-Cleaner-Fiber	1 pce	-	-
Electrical Tape,black	2104282-01	-	1 pce	1 pce
UniCam Pretium Tool Bag with Integrated Waste Receptacle and Organized Foam Insert Interior	02-001860-001	1 pce	-	-
Standard UniCam Tool Bag	2104407-01	-	1 pce	1 pce

Ordering information:

Type Description	UniCam Pretium tool kit	UniCam CTS-SF tool kit	UniCam basic tool kit
Quantity/deliver unit	1/1	1/1	1/1
Ordering number	**TKT-UNICAM-PFC**	**TKT-UNICAM-CTS-SF**	**TKT-UNICAM**

Optional accessories:

Item	Item code	CTS	CTS-SF
CTS adapter for UniCam® SC connectors	TER-CTS-SC	3 pcs	3 pce
CTS adapter for UniCam® ST® compatible connectors	TER-CTS-ST	3 pcs	3 pcs
CTS adapter for UniCam® LC connectors	TER-CTS-LC	3 pcs	3 pcs
Jumper ST® compatible to SC SM simplex, 1m, FRNC	586101R3Z31001M	1 pce	1 pce
Jumper ST® compatible to LC SM simplex, 1m, FRNC	026101R2Z31001M	1 pce	1 pce

CORNING

Product Family:	**LANscape® Field installable connectors**
Product:	**ST® compatible, FC, SC and LC anaerobic-cure connectors**
Fibre:	**InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2**

Applications

The Corning Cable Systems' anaerobic-cure all ceramic ST® compatible, FC, SC and LC connectors are ideal for all applications requiring field installed connectors, like fibre-to-the-desk, fibre-to-the-machine and enterprise networks installations.

Description

The Corning Cable Systems' anaerobic-cure multimode and single-mode connectors combine the quick-cure convenience of anaerobic adhesive with the performances of epoxy and polish connectors.

The anaerobic adhesive uses a two-part epoxy-resin curing process. The adhesive is first injected into the connector's ferrule, the fibre is dipped into the primer and inserted into the ferrule, curing takes one minute without the use of UV lamps or ovens.

Anaerobic connectors can be completely assembled and polished in less than three minutes.

**ST® compatible anaerobic-cure connector
MM 50/125µm OM2**

Features /Benefits

- Fast cure anaerobic adhesive: does not require electrical power supply.
- Minimal tools required.
- Hand polish: does not require polishing machine.
- Reduced installation time: < 3 minutes (assembled and polished)
- Typical insertion loss: 0.2 dB with physical contact polish.
- ST® compatible, FC, SC connectors delivered in single connector's bags including connector body with preassembled ferrule, boots for 900 µm fibres and 2-mm, 3-mm jacketed cables, crimp rings for 2-mm, 3-mm jacketed cables.
- LC connectors delivered in single connector's bags including connector body with preassembled ferrule, boots for 900 µm fibres and 2-mm, 3-mm jacketed cables, crimp rings for 1.6 – 2-mm, 3-mm jacketed cables.
- Available in 3 versions:
    MM OM3/OM2: pack includes 2 sets of boots (Aqua OM3, Black OM2 to EIA/TIA-568-C.3 Draft 2006)
    MM OM1: pack includes 1 set of boots (Beige to EIA/TIA-568-C.3 Draft 2006)
    SM: pack includes 1 set of boots (Blue to EIA/TIA-568-C.3 Draft 2006 for LC connectors)*
- ST® compatible to TIA/EIA 604-2, FC to TIA/EIA 604-4, SC to TIA/EIA 604-3 and LC to TIA/EIA 604-10

* Boots for ST® compatible, FC and SC single-mode connectors are white.

Characteristics

Connector type	ST® comp./PC	FC/PC	SC/PC	LC/PC
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic
Connector body	Metal	Metal	Composite	Composite
Insertion loss, typical PC (dB)	0.2			
Reflectance Multi Mode (dB)	≤ -26			
Reflectance SingleMode (dB)	≤ -40			
Temperature cycling to FOTP-3	ΔIL ≤ 0.3 dB, -40 – +75 °C, 21 cycles			

Ordering information: Multimode connectors

ST® compatible

Ordering number	Description	Fibre type
95-051-52-SP	ST® compatible MM Anaerobic, metal housing, black + aqua boots	OM3/OM2
95-101-52-SP	ST® compatible MM Anaerobic, metal housing, beige boots	OM1

FC

Ordering number	Description	Fibre type
95-051-61-SP	FC MM Anaerobic, metal housing, black + aqua boots	OM3/OM2
95-101-61-SP	FC MM Anaerobic, metal housing, beige boots	OM1

SC

Ordering number	Description	Fibre type
95-051-41-SP	SC MM Anaerobic, black housing, black + aqua boots	OM3/OM2
95-101-41-SP	SC MM Anaerobic, beige housing, beige boots	OM1

LC

Ordering number	Description	Fibre type
95-051-98-SP	LC MM Anaerobic, black housing, black + aqua boots	OM3/OM2
95-101-98-SP	LC MM Anaerobic, beige housing, beige boots	OM1

Ordering information: Single-mode connectors

ST® compatible

Ordering number	Description	Fibre type
95-201-52-SP	ST® compatible SM Anaerobic, metal housing, white boots	OS2

FC

Ordering number	Description	Fibre type
95-201-61-SP	FC SM Anaerobic, metal housing, blue boots	OS2

SC

Ordering number	Description	Fibre type
95-201-41-SP	SC SM Anaerobic, blue housing, blue boots	OS2

LC

Ordering number	Description	Fibre type
95-201-98-SP	LC SM Anaerobic, blue housing, blue boots	OS2

CORNING

Product Family: **LANscape® field installable connectors tool-kits**

Product: **Anaerobic-cure connectors tool-kits**

Fibre: **All Fibre Types**

Applications

The Corning Cable Systems' Anaerobic tool-kits are intended for the installation of all Corning Cable Systems' Anaerobic and Anaerobic GIC connectors.
Tool kits with different equipment are available also for installation of a special group of connectors.

Description

Corning Cable Systems' tool kits for field installable connectors provide with a collection of essential tools required for tasks associated with the termination of fibre optic cable. The tools are thoughtfully assembled and are stored in compact and easy to carry cases that are lined with a foam-padding material in order to protect the high-quality tools.

The standard tool kit (TKT-ANAEROBIC2-EMEA) allows installation and polishing of multimode and single-mode all-ceramic anaerobic connectors as well as of the anaerobic GIC connectors. All CCS' anaerobic

TKT-ANAEROBIC2-EMEA tool kit
(Adhesive bottles may differ from photo)

connector types can be installed with this kit: ST® compatible, FC, SC and LC. The kit contains consumables for up to 500 connectors.

The TKT-ANAEROBIC2-25-EMEA is an economical alternative for installation of the only connectors with 2.5 mm diameter ferrules (ST® compatible, FC and SC). The kit contains consumables for up to 500 connectors.

The LC supplement kit TKT-ANAEROBIC2-S integrates the TKT-ANAEROBIC2-25-EMEA kit with the additional tools necessary for LC termination.

The combined features of TKT-ANAEROBIC2-25-EMEA and TKT-ANAEROBIC2-S are equivalent to those of TKT-ANAEROBIC2-EMEA.

A consumables set (TKT-ANAEROBIC2-C-EMEA) is available for replacing consumable materials like polishing films and two components adhesive. The kit contains consumables for up to 500 connectors.

Features/Benefits

- Compact and practical carrying bag
- Full in-depth instruction included
- All components necessary to install Anaerobic and Anaerobic GIC connectors are included.
- Each of the tool kit includes consumables for the installation of up to 500 connectors
- A consumables set including consumables for the installation of up to 500 connectors is available.

Tool kits contents

Item	Item code	TKT-ANAEROBIC2-EMEA	TKT-ANAEROBIC2-C-EMEA	TKT-ANAEROBIC2-25-EMEA	TKT-ANAEROBIC2-S
Loctite#648 anaerobic adhesive, 50ml		1pc	1pc	1pc	-
Loctite #7649 Primer anaerobic, spray, 150ml		1pc	1pc	1pc	-
Syringe 3cc	100335-01	2 pcs	-	2 pcs	-
Syringe tip 1.5mm	2104090-01	20 pcs	-	20 pcs	-
Polishing film clear, 0.2µm, 5"	1506069-01	1 Pack / 50 pcs	1 Pack / 50 pcs	1 Pack / 50 pcs	-
Polishing film grey, 3µm, 6"	2104004-02	1 Pack / 50 pcs	1 Pack / 50 pcs	1 Pack / 50 pcs	-
Polishing film yellow, 12µm, 5"	2104071-01	1 Pack / 15 pcs	1 Pack / 15 pcs	1 Pack / 15 pcs	-
Polishing film white, 0.3µm, 5"	2104072-01	1 Pack / 50 pcs	1 Pack / 50 pcs	1 Pack / 50 pcs	-
Puck polish. SC/ST/FC conn.	2104020-01	2 pcs	-	2 pcs	-
Puck-LC hand, spring loaded	2104459-01	1 pce	-		1 pce
Plate-polish. 6x6" (GIC conn.)	2104306-01	2 pcs	-	2 pcs	-
Pad rubber (all-cer. Conn.)	2104454-01	3 pcs	-	3 pcs	-
Crimp tool SC/ST/FC single step	3201031-01	1 pce	-	1 pce	-
Crimp tool LC	3201032-01	1 pce	-	-	1 pce
Scribe, ruby (reversible blade)	3233004-01	1 pce	-	1 pce	-
Stripper 6" wire Jensen tool	3206001-01	1 pce	-	1 pce	-
Stripper, No-nicks, 203µm	3205007-01	1 pce	-	1 pce	-
Fibre stripper, plier type	3205004-01	1 pce	-	1 pce	-
Gauge LC strip length	3201032-01	1 pce	1 pce		1 pce
Gauge GIC RPP ST/SC strip length	2104264-02	1 pce	1 pce	1 pce	-
Razor blade single edge	3224001-01*	3 pcs	-	3 pcs	-
Compressed air	2101005-01	1pce	-	1pce	-
Scissors 5" electrician	100294-01	1 pce	-	1 pce	-
Tweezers	100312-01	1 pce	-	1 pce	-
Wipes alcohol	1508001-01	12 pcs	-	12 pcs	-
Lint free wipes	3615001-01	-	1 pack	-	-
Marker black	2104007-01*	1 pce	1 pce	1 pce	-
200x microscope 2.5 univ.adp	LSCOPE-9	1 pce	-	1 pce	-
1.25 univ.adp for microscope	2104375-01	1pce	-	-	1 pce
Battery 1.5V for microscope	1716016-01	3 pcs	3 pcs	3 pcs	-
Bottle 2.0 oz. with cap	1603004-03	2 pcs	-	2 pcs	-
Box, plastic clear	1605059-01	1 pce	-	1 pce	-
Spiral wrap 1/8" o.d.	1819001-02	2 pcs	-	-	2 pcs
Anaerobic procedure ISS 2	SRP-006-160	1 pce	1 pce	1 pce	1 pce

Note: All materials in the list of contents, except those marked with *, can be ordered separately

CORNING

Ordering information:

Type Description	Anaerobic tool kit for (ST/FC/SC/LC) GIC and all-ceramic connectors	Consumables for anaerobic tool kits
Quantity/deliver unit	1/1	1/1
Ordering number	**TKT-ANAEROBIC2-EMEA**	**TKT-ANAEROBIC2-C-EMEA**

Type Description	Anaerobic tool kit for (ST/FC/SC) GIC and all-ceramic conn. 2.5mm ferrule	Integration for TKT-ANAEROBIC2-25 for LC terminations
Quantity/deliver unit	1/1	1/1
Ordering number	**TKT-ANAEROBIC2-25-EMEA**	**TKT-ANAEROBIC2-S**

CORNING

Product Family: **LANscape® Fan-out kits**

Product: **Buffer tube indoor and outdoor single fibres fan-out-kits**

Fibre: **Multimode and Single-Mode Fibres**

Applications

The Corning Cable Systems' buffer-tube fan-out kits are intended for the furcation of buffer tubes onto 900µm legs as required to field-install connectors on bare fibres.

Different kits are available for applications on stranded loose tube cables at indoor or outdoor cross-connection points. In combination with the transition kits the indoor buffer tubes fan-out kits can be also installed on single maxi-tube cables.
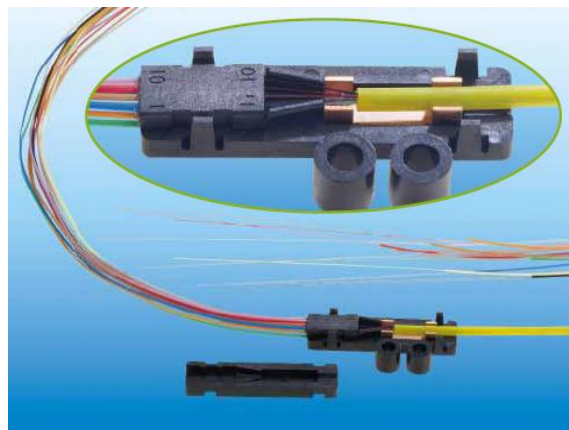
Description

Corning Cable Systems' indoor and outdoor buffer tube fan-out kits are specifically designed for the termination of 6- and 12-fibres buffer tubes. These kits provide the ultimate solution for the field termination of loose tube cables by means of a compact easy to install assembly not requiring additional hardware or space than that required for terminating tight buffered cables.
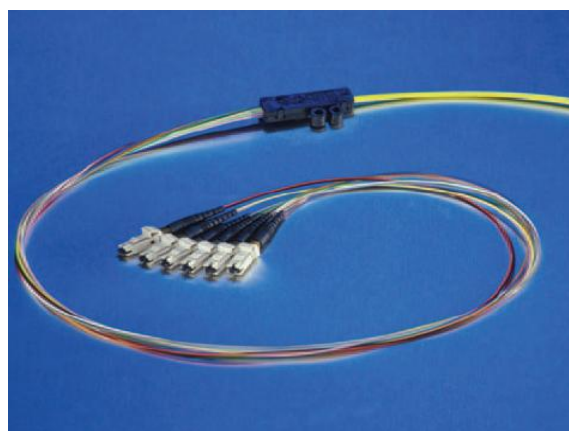
Indoor and outdoor kits feature a 900µm fan-out assembly that is colour coded to match the fibres colour scheme (to Telcordia). The fan-out assembly is available with 6- or 12-fibres units in lengths of 600 mm (25-in.) or 1200 mm (47-in). These different lengths provide the flexibility needed for installation in a variety of hardware options.

Features / Benefits

– Eliminates strain on fibres by isolating them from tensile forces
– Colour coded fan-out tubing to Telcordia:
   6 fibres: blue, orange, green, brown, grey, white
   12 fibres: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua
– Snap-together furcation unit eliminates epoxy resin for indoor kits.
– Compact design.
– Quick and easy to install.
– Optimized for field termination of loose tube cables.
– Excellent fibre routing capabilities.
– Bend radius protection designed into each unit.
– Indoor temperature range: 0 °C – +70 °C.
– Outdoor temperature range: -40 °C – +70 °C
– Single maxi-tube cables fan-out extension kits suitable for single maxi-tube cables containing individual fibres or up to 5 bundles with up to 12 fibres each.

Buffer tube fan-out kit: furcation unit

Buffer tube fan-out kit for single maxi-tube cables

CORNING

Ordering information:

Indoor buffer tube fan-out kits

       1   **2**

FAN – BT☐☐ **–**☐☐

Outdoor buffer tube fan-out kits

       1   **2**

FAN – OD☐☐ **–**☐☐

Use the following options to construct the part number:

1 Select length of furcation length (900µm tubing)

25 = 600 mm (25-in.)
47 = 1200 mm (47-in.)

2 Select number of fibres

06 = 6 fibres
12 = 12 fibres

Examples:
FAN – BT47 – 06
Type designation: Indoor fan-out kit for 6 fibres, length of 900µm tubing = 1200 mm (47-in.).

FAN –OD25 – 12
Type designation: Closet fan-out kit for 12 fibres, length of 900µm tubing = 600 mm (25-in.).

Optional accessories:

Part Number	Description
TKT-FANBT-A	Buffer tube fan-out assembly tool kit. Includes: buffer tube fan-out assembly fixture, case for buffer tube fan-out assembly fixture.
TKT-FANBT-C	Consumables for buffer tube fan-out assembly tool kit. Includes: buffer tube fan-out clamp, Loctite 411 adhesive (3g), alcohol wipes (20 pcs), Kimwipes (1 pack).
EST-END-01-SM	Single maxi-tube fan-out kit for single-mode applications: includes funnel, yellow branch tubing, transition heat-shrink sleeves and installation instructions.
EST-END-01-MM	Single maxi-tube fan-out kit for single-mode applications: includes funnel, orange branch tubing, transition heat-shrink sleeves and installation instructions.

Product Family: LANscape® Fan-out kits

Product: Single ribbon fan-out-kit

Fibre: InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2

Applications

The Corning Cable Systems' ribbon fan-out kit is intended for the furcation of a single ribbone (bare, in a rectangular fan-out tubing or in a ribbon interconnect cable) onto 900µm single fibre legs as required to field-install single fibre connectors.
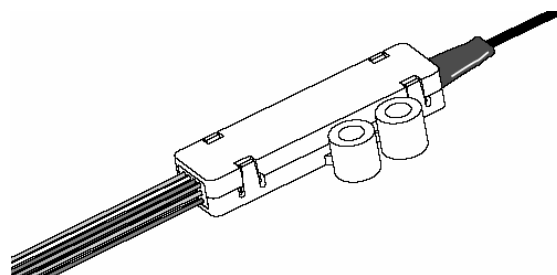
Description

The Corning Cable Systems' ribbon fan-out kit is specifically designed for the indoor termination of 12-fibres ribbons bare as well as jacketed (fan-out tubing or ribbon interconnect cable). This kit provide the ultimate solution for the field termination onto single fibre connectors by means of a compact, easy to install assembly not requiring additional hardware or space than that required for terminating tight buffered cables.
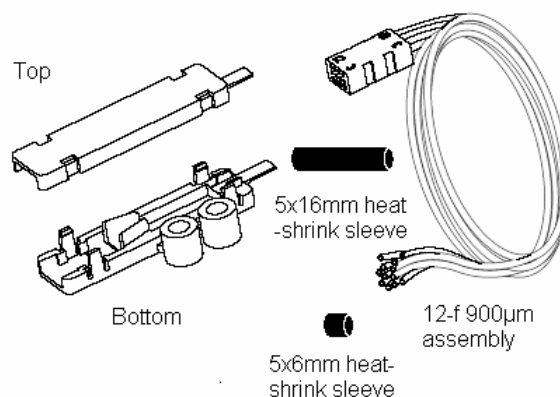
The ribbon fan-out kit features a 900µm fan-out assembly that is colour coded to match the fibres colour scheme of the ribbon. The fan-out assembly is available with 12-fibres units in lengths of 600 mm (25-in.) or 900 mm (36-in). These different lengths provide the flexibility needed for installation in a variety of hardware options.

Features / Benefits

- Eliminates strain on fibres by isolating them from tensile forces
- Colour coded fan-out tubing for indoor use
- Snap-together furcation unit eliminates epoxy resin.
- Compact design.
- Quick and easy to install.
- Optimized for field termination of cables.
- Excellent fibre routing capabilities.
- Bend radius protection designed into each unit.

Single ribbon fan-out kit

Ribbon fan-out kit: components

Ordering information:

Ordering number	Description	Tubing length mm (in.)
RIB-FAN-12	Ribbon fan-out kit 12x900µm tubing 600mm (25-in.) length	600 (25)
RIB-FAN-12-36	Ribbon fan-out kit 12x900µm tubing 900mm (36-in.)length	900 (36)

Note: 900 mm (36-in.) length is only recommended if installing into connector modules; 600 mm (25-in.) length is recommended for connector panels and other Corning Cable Systems hardware.

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Product Family: LANscape® Fan-out kits

Product: Spider fan-out-kits

Fibre: InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2

Applications

The Corning Cable Systems' spider fan-out kits are intended for the furcation of loose tube or tight buffered cables buffer tubes onto ruggedized legs to realize multifibres cable assemblies to be used for direct connections without use of patch panels.
Different kits are available for application on loose tube, tight buffered or ribbon cables.

Description

Corning Cable Systems' spider fan-out kits are a low cost termination option for multifibre cables. These kits are designed for both factory and field termination of tight-buffered, loose tube (with 4 to 24 fibres) and single tube ribbon (24 to 96 fibres) non-armoured cables. These kits provide a modular, easy installable solution based on a simple step-by-step assembly that grants a successful installation. Installation of spider fan-out kits eliminates the need for patch panels at low-cost termination points.

The spider fan-out kits terminate and provide pull-out protection for single fibres (tight buffered 900µm or bare fibres 250µm) or bare 12-fibres ribbons; the single fibres or the ribbons are threaded into the modular inserts which consist of a composite assembly securing, for single fibres, six 1-meter lengths of fan-out tubing, and for 12-fibre ribbons two 1-meter lengths of rectangular fan out tubing. The fan-out tubing (for single fibre as well as for ribbon) provide three layers of protection consisting of a Teflon inner tube (into which the fibre or the ribbon is inserted) an aramid yarn strenght member and an outer protective PVC Jacket. The fan-out insert snaps into the main spider body which is then enclosed within the outer housing.
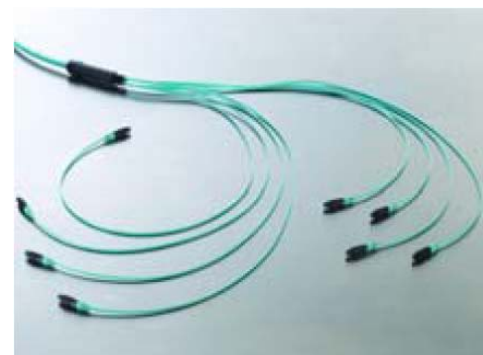
Features / Benefits

- Modular, compact design.
- No special tool or heat-shrink sleeve
- Field or factory termination
- Fan-out tubing length of one meter provides flexible installation
- Cost effective for splicing and terminating hardware
- Non-metallic/high strength, rugged, composite material.

Spider fan-out MM OM1/OM2 on tight buffered cable

Spider fan-out kit SM on loose tube cable

Ribbon spider fan-out kit MM OM3

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Specifications :

Fibre count	Loose tube/Single tube cable (bare fibre / 250µm)		Mic / A-VQ(BN)H (tight buffered fibre / 900µm)		Single tube ribbon cable (12-fibres ribbon)	
	Length mm (in.)	Diameter mm (in.)	Length mm (in.)	Diameter mm (in.)	Length mm (in.)	Diameter mm (in.)
6 to 12	146 (5.75)	28 (1.1)	121 (4.75)	19 (0.75)	–	–
13 to 24	146 (5.75)	28 (1.1)	146 (5.75)	28 (1.1)	–	–
24 to 96	–	–	–	–	146 (5.75)	28 (1.1)

Acceptable cable outer diameter:

Fibre count	Loose tube/Single tube cable (bare fibre / 250µm)		Mic / A-VQ(BN)H (tight buffered fibre / 900µm)		Single tube ribbon cable (12-fibres ribbon)	
	Min. O.D. mm (in.)	Max. O.D. mm (in.)	Min. O.D. mm (in.)	Max. O.D. mm (in.)	Min. O.D. mm (in.)	Max. O.D. mm (in.)
6 to 12	8.6 (0.34)	15.7 (0.62)	4.6 (0.18)	7.1 (0.28)	–	–
13 to 24	8.6 (0.34)	15.7 (0.62)	6.6 (0.26)	10.9 (0.43)	–	–
24 to 96	–	–	–	–	8.6 (0.34)	15.7 (0.62)

Ordering information:

H indicates the RoHS compliance

$$\textbf{SFK} - \underset{\textbf{1}}{\square} - \underset{\textbf{2}}{\square\square} - \underset{\textbf{3}}{\square\square\square} - \underset{\textbf{4}}{\square}\textbf{H}$$

Use the following options to construct the part number:

1 Select length of furcation length (900µm tubing)

P = 3mm (single fibre) or rectangular (ribbon) fan-out tubing
P2 = 2mm (single fibre) fan-out tubing

2 Select number of fibres

06 = up to 6 single fibres
12 = up to 12 single fibres
18 = up to 18 single fibres
24 = up to 24 single fibres or 2 ribbons (24 fibres)
48 = up to 4 ribbons (48 fibres)
72 = up to 6 ribbons (72 fibres)
96 = up to 8 ribbons (96 fibres)

3 Select fibre type

900 = accepts 900µm tight buffered fibres
250 = accepts 250µm bare fibres
RIB = accepts 12 fibres ribbon

4 Select fan-out tubing colour

M = Orange (62.5µm or standard 50µm multimode)
S = Yellow (single-mode)
A = Aqua (laser optimized 50µm multimode)

Examples:

SFK – P – 06 – 900 – SH

Type designation: Spider fan-out kit for 6x 900µm single-mode fibres, 6 fan-out tubings 3mm diameter, yellow.

SFK – P2 – 24 – 250 – AH

Type designation: Spider fan-out kit for 24x250µm multimode 50µm laser optimized fibres (OM3), 24 fan-out tubings 2mm in diameter, aqua.

SFK – P – 24 – RIB –MH

Type designation: Spider fan-out kit for 2xribbon (24 fibres) multimode 50µm or 62.5µm fibres (OM3), 2 rectangular fan-out tubings, orange.

Optional accessories:

Part Number	Description
2104148-01	6 fibres insert plug for bare fibres (250µm) orange (62.5µm or standard 50µm multimode).
2104149-01	6 fibres insert plug for tight buffered fibres (900µm) orange (62.5µm or standard 50µm multimode).
2104150-01	6 fibres insert plug for bare fibres (250µm) yellow (single-mode).
2104151-01	6 fibres insert plug for tight buffered fibres (900µm) yellow (single-mode).
SFK-P-IH-RIB-A	2 horizontal ribbons insert plug aqua (multimode 50µm laser optimized fibres)
SFK-P-IV -RIB-A	2 vertical ribbons insert plug aqua (multimode 50µm laser optimized fibres)
SFK-P-IH-RIB-M	2 ribbons horizontal insert plug orange (62.5µm or standard 50µm multimode).
SFK-P-IV-RIB-M	2 ribbons horizontal insert plug orange (62.5µm or standard 50µm multimode).
SFK-P-IH-RIB-S	2 ribbons horizontal insert plug yellow (single mode).
SFK-P-IV-RIB-S	2 ribbons horizontal insert plug yellow (single mode).
2104189-01	Blank plug

Product Family: LANscape® CamSplice™ no-adhesive mechanical splice

Product: CamSplice™ no-adhesive mechanical splice

Fibre: InfiniCor® SX+ OM3, InfiniCor® 600 OM2, InfiniCor® 300 OM1, SMF-28e™ OS2

Applications

Corning Cable Systems' CamSplice™ no-adhesive mechanical splices are especially indicated for emergency restoration and lab splicing for temporary system testing. They offer also a simple solution for those cases where the use of a fusion splice machine is not practicable.

Description

Corning Cable Systems' CamSplice™ is a simple, craft-friendly mechanical splice for both multimode and single-mode fibres. It features a "cam" locking mechanism, which requires no adhesive. The CamSplice™ mechanical splice incorporate a unique, patented fibre alignment method that self-centres the fibres and provides extremely accurate alignment. Average "blind" (non-tuned) splice loss for the CamSplice™ mechanical splice is specified at 0.3 dB with a minimum loss less than 0.15 dB. There is only one part for 250 µm to 250 µm, 250 µm to 900 µm or 900 µm to 900 µm applications (one size fits all).

The CamSplice™ mechanical splice requires minimal training and few accessories to assemble. The assembly process involves stripping and cleaving fibres, inserting the fibres into the splice part until they touch and turning the cams to secure the fibre. The process does not involve any adhesives or special tools, although an optional assembly fixture is recommended. A typical installation takes less than two minutes. A compact, self-contained tool kit is available with standard tools including the optional the assembly fixture.
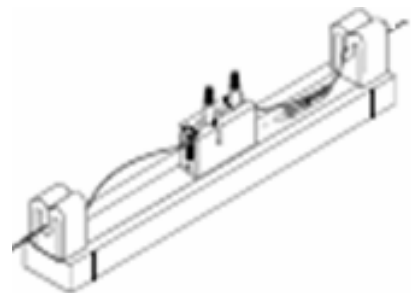
Completed splices fit in Corning Cable Systems and many other industry standard splice trays.

CamSplice™ and antitorsion CamSplice™

CamSplice™ assembly tool

Features / Benefits

- No adhesive or epoxy required
- Universal: one part fits all fibre coatings
- Re-mateable, tunable.
- Self centring alignment mechanism.
- Antitorsion option with lead-in tubes for securing 900µm tight buffered fibres.
- Pre-inserted index-matching gel.
- No stress in fibre alignment area.
- Small assembly fixture recommended, but optional.
- Fits in most industry standard splice trays.

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Characteristics

Dimensions LxW: mm (in.)	44.0 x 4.2 (1.73 x 0.17)
Typical splice loss: dB	0.15
Typical "blind" splice loss: dB	0.3
Reflectance (flat cleave): dB	≤ -45 dB
Reflectance (angled cleave): dB	≤ -60 dB
Tensile strength: N	2.25
Temperature range:	-40 – +75 °C, ΔIL ≤ 0.1 dB average
Vibration	10 – 55 Hz, amplitude max. 1.52 m, 3 axis, 2 h each, ΔIL ≤ 0.5 dB

Ordering information:

Ordering number	Description	Quantity/ delivery unit
95-000-04	CamSplice™ mechanical splice	6 / 1
95-000-04-ATC*	Antitorsion CamSplice™ mechanical splice for 900µm applications	900 (36)

* Once crimped the antitorsion CamSplice™ is not re-mateable

Optional accessories:

Part Number	Description
TKT-100-01	CamSplice™ tool kit, includes CamSplice™ assembly fixture, fibre coating stripping tool.
TKT-100-02	CamSplice™ tool kit with cleaver, includes CamSplice™ assembly fixture, fibre coating stripping tool and Score & Snap Cleaver.
2104040-01	CamSplice™ assembly fixture.
2104200-01	Crimp tool for antitorsion CamSplice™ mechanical splice
FBC-001	Score & Snap cleaver.
FBC-006	Precision fibre cleaver.

Tool kits contents

Item	Item code	TKT-100-01	TKT-100-02
CamSplice™ assembly tool	2104040-01	1 pce	1 pce
Fibre cleaver, score & snap	FBC-001	-	1 pce
Stripper 6" wire Jensen tool	3206001-01	1 pce	1 pce
Stripper, No-nicks, 203µm	3205007-01	1 pce	1 pce
Fibre stripper, plier type	3205004-01	1 pce	1 pce
Scissors 5" electrician	100294-01	1 pce	1 pce
Marker black	2104007-01*	1 pce	1 pce
Tweezers	100312-01	1 pce	1 pce
Black tape, electrical,3/4"x20'	2104047-01	1 pce	1 pce
Wipes alcohol	1508001-01	6 pcs	6 pcs
Bottle 60 ml dispensing	1604003-01*	1 pce	1 pce
Book of numbers 0 - 9	100297-01	1 pce	1 pce
Instructions CamSplice™ assembly	SRP-006-038	1 pce	1 pce
Instructions FBC-001 cleaver	SRP-001-040	-	1 pce
Instructions fibre stripping tool	SRP-005-006	1 pce	1 pce
Instructions buffer stripping tool	SRP-005-005	1 pce	1 pce
Instructions stripper No-nicks, 203µm	SRP-004-036	1 pce	1 pce

Note: All items in the content lists, except those marked with *, can be ordered separately