CommScope Field Installable Fiber Optic Connector Guide

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Introduction

CommScope's robust portfolio of field installable connectors are ideal for campus environments where exact measurements are not possible, or when there's a need for a fast repair to restore network connections. CommScope offers traditional epoxy/polish solutions, as well as solutions with a pre-polished ferrule from the factory, which eliminates the need for polishing, adhesives, and crimping in the field. Easy to use and quick to install, CommScope field installable connectors and tool kits are designed to simplify the termination process and enable you to terminate and move to your next project with minimal investment in time and cost.

· Fast to install
· No requirement for pre-engineered lengths
· Eliminates unwanted slack storage
· Consistent and reliable terminations

CommScope offers an extended line of field installable connectors and tool kits, including epoxy/polish connectors, mechanical-splice Qwik II connectors, and fusion splice-on Qwik-Fuse connectors. At CommScope, we know campus network solutions are not a one size fits all. You can trust in our products and team of experts to help add the flexibility you need to create a quality solution.

CommScope QWIK II field installable connectors

The CommScope QWIK II connector is a mechanical-splice connector that is easy to use, reliable, it can be terminated in less than one minute and can be re-terminated up to three times. By eliminating the need for specialized tools and power, QWIK II connectors can be used virtually anywhere. They are available in LC, SC and ST connector styles.

Qwik II Specifications

Fiber	SMF (OS2)
	MMF (OM1, OM3/OM4/OM5)
Cable diameter	250 µm, 900 µm, 3.0 mm, 2.0 mm
Polish	APC, UPC, PC
Insertion loss	SMF - UPC: 0.2 dB(typical), 0.5 dB(max)
	SMF - APC: 0.3 dB(typical), 0.6 dB(max)
	MMF - PC: 0.1 dB(typical), 0.5 dB(max)
Return loss	SMF: ≥50 dB (APC), ≥45 dB (UPC)
	MMF: ≥20 dB (PC)
Operating temperature	-40°C to 75°C
Housing color	SMF: Green (APC), Blue (UPC)
	MMF: Aqua (OM3/4/5)
Standard compliance	TIA-568.3-D

Qwik II connector kits

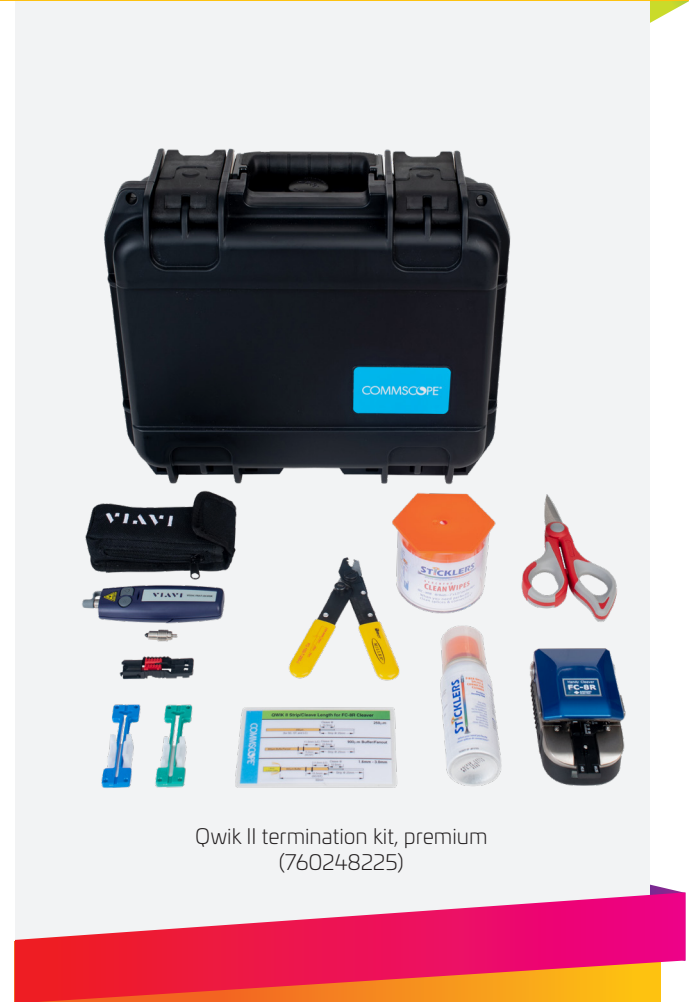| Material ID	Description	Connector	Fiber	Cable	Housing color	Package
760117887	MFC-LCF-09-5X	LC	OM3/4/5	0.25/0.9 mm	Aqua	Single
760117911	MFC-LCF-09-5X-25-PACK	LC	OM3/4/5	0.25/0.9 mm	Aqua	25-Pack
760242343	MFC-LCF-UNV-5X*	LC	OM3/4/5	0.25/0.9/2.0/3.0 mm	Aqua	Single
760117903	MFC-LCF-09-6X	LC	OM1	0.25/0.9 mm	Beige	Single
760117937	MFC-LCF-09-6X-25-PACK	LC	OM1	0.25/0.9 mm	Beige	25-Pack
760117895	SFC-LCF-09-8X	LC-UPC	OS2	0.25/0.9 mm	Blue	Single
760117929	SFC-LCF-09-8X-25-PACK	LC-UPC	OS2	0.25/0.9 mm	Blue	25-Pack
760242344	SFC-LCF-UNV-8X*	LC-UPC	OS2	0.25/0.9/2.0/3.0 mm	Blue	Single
760242345	SFC-LCAF-UNV-8X*	LC-APC	OS2	0.25/0.9/2.0/3.0 mm	Green	Single
760117978	MFC-SCF-09-5X-25-PACK	SC	OM3/4/5	0.25/0.9 mm	Beige	25-Pack
760184697	SFC-LCF-09-8A-25-PACK	LC-APC	OS2	0.25/0.9 mm	Green	25-Pack
760117945	MFC-SCF-09-5X	SC	OM3/4/5	0.25/0.9 mm	Aqua	Single
760242346	MFC-SCF-UNV-5X*	SC	OM3/4/5	0.25/0.9/2.0/3.0 mm	Aqua	Single
760117960	MFC-SCF-09-6X	SC	OM1	0.25/0.9 mm	Beige	Single
760117994	MFC-SCF-09-6X-25-PACK	SC	OM1	0.25/0.9 mm	Beige	25-Pack
760117952	SFC-SCF-09-8X	SC-UPC	OS2	0.25/0.9 mm	Blue	Single
760117986	SFC-SCF-09-8X-25-PACK	SC-UPC	OS2	0.25/0.9 mm	Blue	25-Pack
760242347	SFC-SCF-UNV-8X*	SC-UPC	OS2	0.25/0.9/2.0/3.0 mm	Blue	Single
760242348	SFC-SCAF-UNV-8X*	SC-APC	OS2	0.25/0.9/2.0/3.0 mm	Green	Single
760184689	SFC-SCF-09-8A-25-PACK	SC-APC	OS2	0.25/0.9 mm	Green	25-Pack
760118000	MFC-STF-09-5X	ST	OM3/4/5	0.25/0.9 mm	Aqua	Single
760118026	MFC-STF-09-6X	ST	OM1	0.25/0.9 mm	Beige	Single
760118018	SFC-STF-09-8X	ST-UPC	OS2	0.25/0.9 mm	Blue	Single

* Field terminated fiber patch cords are not included in CommScope Extended System Warranty

Qwik II connector tool kits and accessories

QWIK II connector tool kits consist of all tools and accessories required to ensure fast, consistent and optimal termination. The premium tool kit includes a high-precision cleaver with auto-rotation blade and a handheld visual fault identifier (VFI) for the confirmation of proper termination.

Qwik II connector tool kit components

Component	Qwik II termination kit (760242377)	Qwik II termination kit, premium (760248225)
Case	√	√
0.9 mm cable clamp	√	√
2.0 mm cable clamp	√	√
3.0 mm cable clamp	√	√
Visual fault identifier (VFI)		√
High-precision fiber cleaver		√
Precision fiber cleaver	√	
Fiber stripper, 3-hole	√	√
Cutter, Kevlar	√	√
Marker, Sharpie	√	√
Fiber prep fluid	√	√
Fiber wipes	√	√
Termination instruction	√	√

Qwik II termination kit, premium
(760248225)

Qwik II connector tool kits and accessories

Material ID	Description
760242377	Qwik II connector termination tool kit
760248225	Qwik II connector termination tool kit, premium
760243353	Replacement blade for high-precision cleaver
760249056	Optical Fiber Visual Fault Locator
760249518	High-precision Fiber Cleaver
760243349	Fiber clamp, buffer tube, 900 µm
760243350	Fiber clamp, 2.0 mm
760243351	Fiber clamp, 3.0 mm
760243081	Qwik II LC duplex clip, 6 per pack

CommScope Qwik-Fuse field installable connectors

The CommScope QWIK-Fuse connector utilizes fusion-splicing connectivity to ensure best-in-class insertion & return loss performance. They're designed to be compatible with the fusion splicer already in your toolbox using the included ferrule holder, though CommScope does offer a competitively priced splicer specifically for connector installation as well. Unlike many fusion-splice connectors, with the QWIK-Fuse, the splice is entirely contained within a standard connector footprint. Available in LC and SC connector styles, choose QWIK-Fuse when market-leading insertion & return loss performance is a priority.

Fiber	SMF (OS2)
	MMF (OM3/4/5)
Cable diameter	250 µm, 900 µm, 1.6 mm, 2.0 mm, 3.0 mm
Polish	APC, UPC
Insertion loss	SMF: 0.15 dB (typical), 0.3 dB (max)
	MMF: 0.10 dB (typical), 0.25 dB (max)
Return loss	SMF: ≥65 dB (APC), ≥55 dB (UPC)
	MMF: ≥30 dB (PC)
Operating temperature	-40°C to 75°C
Housing color	SMF: Green (APC), Blue (UPC)
	MMF: Aqua
Standard compliance	SM: GR-1081, TIA 568-3. D, and IEC 61753-1
	MM: TIA 568-3. D and IEC 61753-1
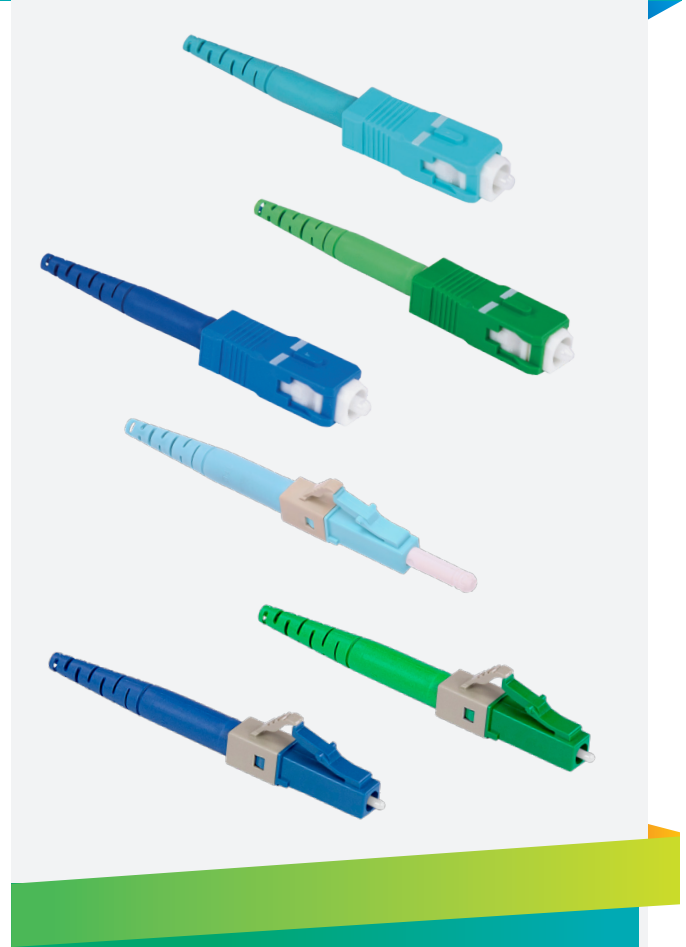
Qwik-Fuse connector kits

Material ID	Description	Connector	Fiber	Cable	Housing color	Package
760242874	MFC-LCF-09-5Y-12-PACK	LC	OM3/4/5	0.25/0.9 mm	Aqua	12/pack
760243371	MFC-LCF-20-5Y-12-PACK	LC	OM3/4/5	1.6/2.0 mm	Aqua	12/pack
760243372	SFC-LCF-09-8Y-12-PACK	LC-UPC	OS2	0.25/0.9 mm	Blue	12/pack
760243388	SFC-LCF-20-8Y-12-PACK	LC-UPC	OS2	1.6/2.0 mm	Blue	12/pack
760243389	SFC-LCAF-09-8Y-12-PACK	LC-APC	OS2	0.25/0.9 mm	Green	12/pack
760243390	SFC-LCAF-20-8Y-12-PACK	LC-APC	OS2	1.6/2.0 mm	Green	12/pack
760243391	MFC-SCF-09-5Y-12-PACK	SC	OM3/4/5	0.25/0.9 mm	Aqua	12/pack
760243392	MFC-SCF-20-5Y-12-PACK	SC	OM3/4/5	1.6/2.0 mm	Aqua	12/pack
760243393	MFC-SCF-30-5Y-12-PACK	SC	OM3/4/5	3.0 mm	Aqua	12/pack
760243394	SFC-SCF-09-8Y-12-PACK	SC-UPC	OS2	0.25/0.9 mm	Blue	12/pack
760243395	SFC-SCF-20-8Y-12-PACK	SC-UPC	OS2	1.6/2.0 mm	Blue	12/pack
760243396	SFC-SCF-30-8Y-12-PACK	SC-UPC	OS2	3.0 mm	Blue	12/pack
760243397	SFC-SCAF-09-8Y-12-PACK	SC-APC	OS2	0.25/0.9 mm	Green	12/pack
760243398	SFC-SCAF-20-8Y-12-PACK	SC-APC	OS2	1.6/2.0 mm	Green	12/pack
760243399	SFC-SCAF-30-8Y-12-PACK	SC-APC	OS2	3.0 mm	Green	12/pack

Qwik-Fuse connector tool kits and accessories

CommScope Qwik-Fuse connector tool kits are designed to facilitate fast and reliable connector terminations. The Qwik-Fuse Termination Tool Kit includes all necessary tools and supplies for cable preparation and termination—providing great convenience to installers and contractors. In addition to all components in the tool kit, the Qwik-Fuse Installer Tool Kit includes a purpose-built splicer (Installer) and fiber holders, which significantly simplify and speed up the splice-on termination process. Fiber holders to terminate Qwik-Fuse connectors using other industry-leading splicers are also available from CommScope.

Qwik-Fuse single fiber connector tool kits

| Component	Qwik-Fuse Termination Kit (760243402)	Qwik-Fuse Installer Kit (760243403)
Case	√	√
Qwik-Fuse Installer		√
Installer power supply		√
Installer spare electrodes		√
Fiber holder, tight buffer		√
Fiber holder, loose buffer		√
Cord prep tool	√	√
High-precision cleaver	√	√
Fiber stripper, 3-hole	√	√
Cutter, Kevlar	√	√
Marker, Sharpie	√	√
Fiber prep fluid	√	√
Fiber wipes	√	√
Termination instruction	√	√

Qwik Fuse installer kit
(760243403)

Qwik-Fuse connector tool kits and accessories

Material ID	Description
760243402	Qwik-Fuse Termination Tool Kit, LC, SC (for splice-on connector termination)
760243403	Qwik-Fuse Installer Tool Kit, LC, SC, with Qwik-Fuse Installer and termination tools
760244684	Qwik-Fuse cord tool, 1.6, 2.0, 3.0 mm
760243576	Qwik-Fuse Installer
760243617	Qwik-Fuse fiber holder, tight buffer and cordage (for use with Qwik-Fuse Installer and many AFL and Sumitomo splicers)
760244521	Qwik-Fuse fiber holder, loose buffer and 250µm fiber (for use with Qwik-Fuse Installer and many AFL and Sumitomo splicers)
760245969	Qwik-Fuse metal ferrule holder
760244706	Qwik-Fuse fiber holder, Fitel, set
760245135	Qwik-Fuse connector duplex clip, LC, 10 per pack
760245136	Qwik-Fuse connector duplex clip, SC, 10 per pack

CommScope Qwik-Fuse MPO field installable connectors

The CommScope QWIK-Fuse MPO connector utilizes mass-fusion-splicing connectivity to facilitate rapid repairs, restorations, and upgrades to multi-fiber cable assemblies. They offer a reliable alternative when factory-terminated MPO solutions cannot be used, such as when high-fiber count cables are being fed through tight conduits or when slack storage of the multi-fiber breakout cannot be accommodated. The ferrule holder that is required for terminations is included with the QWIK-Fuse MPO termination kit and is also available separately.
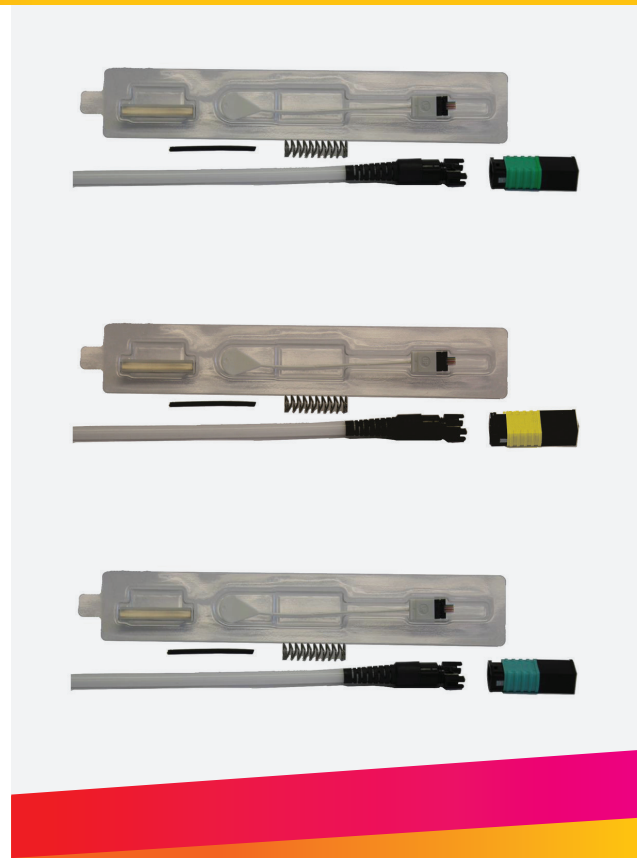
Fiber	SMF (OS2)
	MMF (OM3/4/5)
Fiber counts	8, 12
Cable construction/diameter	3.0 mm round, ribbon–no jacket, ribbon with jacket
Polish	APC, PC
Insertion loss	SMF: ≤0.75dB (Standard loss)
	≤0.35dB (Low loss)
	MMF: ≤0.35dB
Return loss	SMF: ≥60 dB (APC)
	MMF: ≥20 dB (PC)
Operating temperature	-40°C to 75°C
Housing color	SMF: Yellow (Low loss)
	Green (Standard loss)
	MMF: Aqua (OM3/4/5)
Standard compliance	TIA 568-3. D

Qwik-Fuse MPO connector kits

Material ID	Description	Connector	Fiber	Cable	Housing color	Performance	Package
760251300	MFC-12MX-5SP-30-AQ, QWIK MPO, PINNED	MPO-PC Pinned	OM3/4/5	12f round, 3.0 mm	Aqua	Standard Loss	Single
760251299	MFC-12MP-5SP-30-AQ, QWIK MPO, UNPINNED	MPO-PC Unpinned	OM3/4/5	12f round, 3.0 mm	Aqua	Standard Loss	Single
760251294	MFC-12MX-5SP-RN-AQ,QWIK MPO,PINNED	MPO-PC Pinned	OM3/4/5	12 f ribbon, no jacket	Aqua	Standard Loss	Single
760251293	MFC-12MP-5SP-RN-AQ,QWIK MPO,UNPINNED	MPO-PC Unpinned	OM3/4/5	12 f ribbon, no jacket	Aqua	Standard Loss	Single
760251292	MFC-12MX-5SP-RC-AQ,QWIK MPO,PINNED	MPO-PC Pinned	OM3/4/5	12 f ribbon, with jacket	Aqua	Standard Loss	Single
760251291	MFC-12MP-5SP-RC-AQ,QWIK MPO,UNPINNED	MPO-PC Unpinned	OM3/4/5	12 f ribbon, with jacket	Aqua	Standard Loss	Single
760248909	MFC-8MX-5SP-30-AQ, MPO-PC, PINNED	MPO-PC Pinned	OM3/4/5	8f round, 3.0 mm	Aqua	Standard Loss	Single
760248910	MFC-8MP-5SP-30-AQ, MPO-PC, UNPINNED	MPO-PC Unpinned	OM3/4/5	8f round, 3.0 mm	Aqua	Standard Loss	Single
760248915	MFC-8MX-5SP-RN-AQ, MPO-PC, PINNED	MPO-PC Pinned	OM3/4/5	8f ribbon, no jacket	Aqua	Standard Loss	Single
760248916	MFC-8MP-5SP-RN-AQ, MPO-PC, UNPINNED	MPO-PC Unpinned	OM3/4/5	8f ribbon, no jacket	Aqua	Standard Loss	Single

Qwik-Fuse MPO connector kits (continued)

| Material ID	Description	Connector	Fiber	Cable	Housing color	Performance	Package
760248917	MFC-8MX-5SP-RC-AQ, MPO-PC, PINNED	MPO-PC Pinned	OM3/4/5	8f ribbon, with jacket	Aqua	Standard Loss	Single
760248918	MFC-8MP-5SP-RC-AQ, MPO-PC, UNPINNED	MPO-PC Unpinned	OM3/4/5	8f ribbon, with jacket	Aqua	Standard Loss	Single
760251302	SFC-12MX-8SP-30-GR,QWIK MPO/APC,PINNED	MPO-APC Pinned	OS2	12f round, 3.0 mm	Green	Standard Loss	Single
760251301	SFC-12MP-8SP-30-GR,QWIK MPO/APC,UNPINNED	MPO-APC Unpinned	OS2	12f round, 3.0 mm	Green	Standard Loss	Single
760251298	SFC-12MX-8SP-RN-GR,QWIK MPO/APC,PINNED	MPO-APC Pinned	OS2	12 f ribbon, no jacket	Green	Standard Loss	Single
760251297	SFC-12MP-8SP-RN-GR,QWIK MPO/APC,UNPINNED	MPO-APC Unpinned	OS2	12 f ribbon, no jacket	Green	Standard Loss	Single
760251296	SFC-12MX-8SP-RC-GR,QWIK MPO/APC,PINNED	MPO-APC Pinned	OS2	12 f ribbon, with jacket	Green	Standard Loss	Single
760251295	SFC-12MP-8SP-RC-GR,QWIK MPO/APC,UNPINNED	MPO-APC Unpinned	OS2	12 f ribbon, with jacket	Green	Standard Loss	Single
760249953	SFC-12MP-8LL-30-YL, MPO-APC, UNPINNED	MPO-APC Unpinned	OS2	12f round, 3.0 mm	Yellow	Low Loss	Single
760249954	SFC-12MP-8LL-RN-YL, MPO-APC, UNPINNED	MPO-APC Unpinned	OS2	12 f ribbon, no jacket	Yellow	Low Loss	Single
760249955	SFC-12MP-8LL-RC-YL, MPO-APC, UNPINNED	MPO-APC Unpinned	OS2	12 f ribbon, with jacket	Yellow	Low Loss	Single
760249956	SFC-12MX-8LL-30-YL, MPO-APC, PINNED	MPO-APC Pinned	OS2	12f round, 3.0 mm	Yellow	Low Loss	Single
760249957	SFC-12MX-8LL-RN-YL, MPO-APC, PINNED	MPO-APC Pinned	OS2	12 f ribbon, no jacket	Yellow	Low Loss	Single
760249958	SFC-12MX-8LL-RC-YL, MPO-APC, PINNED	MPO-APC Pinned	OS2	12 f ribbon, with jacket	Yellow	Low Loss	Single

Qwik-Fuse MPO tool kits and accessories

Material ID	Description
760188698	Qwik MPO connector termination tool kit (Includes: Assembly platform, ferrule holder, jacket stripper/slitting tool, ribbonizing tool, ribbonizing glue, magnifier, marker, instructions, and soft case)
760253917	Qwik-Fuse MPO ferrule holder, Metal
760253918	Qwik-Fuse MPO ferrule holder, Plastic

CommScope anaerobic connector kits

CommScope offers a wide variety of LC and SC anaerobic (epoxy/polish) connectors, which can be terminated onto 0.9 mm, 1.6 mm and 3.0 mm cable styles. UPC & APC singlemode as well as multimode versions are available. CommScope also offers tool kits, consumable kits and a rapid-cure adhesive to complete the installation.
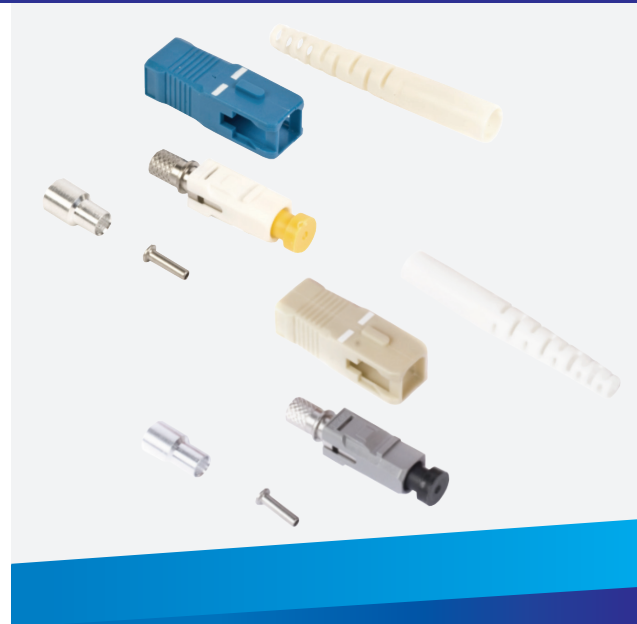
Fiber	SMF (OS2)
	MMF (OM3/4/5)
Cable diameter	900 µm, 1.6 mm, 3.0 mm
Polish	APC, UPC
Insertion loss	SMF: 0.3 dB (max)
	MMF: 0.3 dB (max)
Return loss	SMF ≥65 dB (APC), ≥55 dB (UPC)
	MMF: ≥20 dB (PC)
Operating temperature	-40°C to 75°C
Housing color	SMF: Green (APC), Blue (UPC)
	MMF: Beige
Standard compliance	SM: GR-326 CORE, IEC 61754-20

Ordering information
Configurations at a glance

Mode	Connector	Polished	Cable (mm)	Simplex	Duplex	Bulk pack 100 pcs simplex
SM	SC	UPC	0.9	SFC-SCR-09-BL		SFC-SCR-09-BL-100-BULK-PACK
SM	SC	UPC	1.6	SFC-SCR-16-BL	SDC-SCR-16-BL	
SM	SC	UPC	3.0	SFC-SCR-30-BL	SDC-SCR-30-BL	
SM	SC	APC	0.9	SFC-SC/APC-09-GR		
SM	SC	APC	1.6	SFC-SC/APC-16-GR		
SM	SC	APC	3.0	SFC-SC/APC-30-GR		
MM	SC	UPC	0.9	MFC-SCR-09-BG		
MM	SC	UPC	1.6	MFC-SCR-16-BG	MDC-SCR-16-BG	
MM	SC	UPC	3.0	MFC-SCR-30-BG	MDC-SCR-30-BG	
SM	LC	UPC	0.9	SFC-LCR-09-BL		SFC-LCR-09-BL-100-BULK-PACK
SM	LC	UPC	1.6	SFC-LCR-16-BL	SDC-LCR-16-BL	
SM	LC	UPC	3	SFC-LCR-30-BL	SDC-LCR-30-BL	
SM	LC	APC	0.9	SFC-LC/APC-09-GR		
SM	LC	APC	1.6	SFC-LC/APC-16-GR	SDC-LC/APC-16-GR	
SM	LC	APC	3	SFC-LC/APC-30-GR		
MM	LC	UPC	0.9	MFC-LCR-09-BG		MFC-LCR-09-BG-100-BULK-PACK
MM	LC	UPC	1.6	MFC-LCR-16-BG	MDC-LCR-16-BG	
MM	LC	UPC	3	MFC-LCR-30-BG	MDC-LCR-30-BG	

Connector tool kit components

Part	Material ID	Description
Tool kit	700005838	KIT-1032H TOOL P2020CC C
Consumable kit	700005630	KIT-D-182720 (CONSUMABLE), up to 100 terminations
Cleaning kit	760053199	FIBER OPTIC Connector Clean/Inspect Kit, up to 525 terminations
Cleaning Refill	760053207	FIBER OPTIC CLEANING KIT REFILL(1KIT), up to 525 terminations
Adhesive kit	760000810	EZ ADHESIVES KIT, more than 250 terminations
MM Consumable	760066720	Kit-C-Univ-M-100, up to 100 terminations
SM Consumable	760066738	Kit-C-Univ-S-100, up to 100 terminations

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com

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