



CommScope Field Installable Fiber Optic Connector Guide

COMMSCOPE®

Introduction

Field installable connectors by CommScope offer flexible network solutions 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. The factory pre-polished ferrule eliminates the need for polishing, adhesives, and crimping in the field—minimizing the potential for operator error and expensive connector scrap. 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
- No epoxy, no polish, no crimp
- Reduces scrap and waste
- Compatible with industry-leading splicers

CommScope offers an extended line of field installable connectors and tool kits, including mechanical splice Qwik II 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.

Additional Resources



Product
Information



Installation Videos
(760248225)



CommScope QWIK II field installable connectors

The CommScope QWIK II connector is a mechanical splice connector that is easy to use and reliable, and can be terminated in less than one minute and re-terminated up to three times.

Eliminating the need for specialized tools and power, Qwik II connectors can be used virtually anywhere. They are available in LC, SC and ST.

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), Beige (OM1)
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
760184697	SFC-LCF-09-8A-25-PACK	LC-APC	OS2	0.25/0.9 mm	Green	25/pack
760242345	SFC-LCAF-UNV-8X*	LC-APC	OS2	0.25/0.9/2.0/3.0 mm	Green	Single
760117945	MFC-SCF-09-5X	SC	OM3/4/5	0.25/0.9 mm	Aqua	Single
760117978	MFC-SCF-09-5X-25-PACK	SC	OM3/4/5	0.25/0.9 mm	Aqua	25/pack
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
760184689	SFC-SCF-09-8A-25-PACK	SC-APC	OS2	0.25/0.9 mm	Green	25/pack
760242348	SFC-SCAF-UNV-8X*	SC-APC	OS2	0.25/0.9/2.0/3.0 mm	Green	Single
760118034	MFC-STF-09-5X-25 PACK	ST	OM3/4/5	0.25/0.9 mm	Aqua	25/pack
760118059	MFC-STF-09-6X-25 PACK	ST	OM1	0.25/0.9 mm	Beige	25/pack
760118042	SFC-STF-09-8X-25 PACK	ST-UPC	OS2	0.25/0.9 mm	Blue	25/pack

* 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	√	√



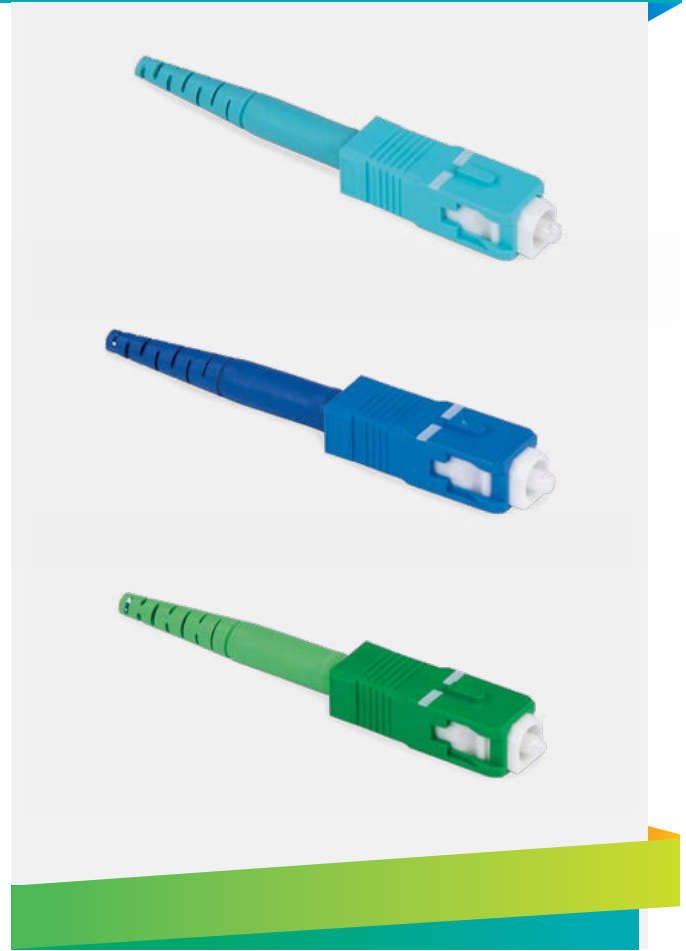
Qwik II connector tool kits and accessories

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 connectors are field installable, splice-on, fiber optic connectors, uniquely designed to provide easy-to-use fusion splicing connectivity. Qwik-Fuse connectors enable fast, low-loss and reliable fusion splicing connectivity in the field without concerns about shorts, excess slacks and the need of a splice tray. They provide flexibility for repair and restoration with minimum downtime. Available in LC and SC, Qwik-Fuse connectors are compatible with industry-leading fusion splicers in the market.

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-326-CORE, 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 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)
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

Designed primarily for fast and easy repairs, restorations, and upgrades, the CommScope Qwik-Fuse MPO connectors are field installable, splice-on MPO connectors that provide a reliable alternative to the factory terminated MPO solution by enabling customized and on-site termination. A Qwik-Fuse MPO termination kit is also available to increase the speed and reliability of termination.

Fiber	SMF (OS2) MMF (OM1, OM3/4/5)
Fiber counts	12
Cable construction/diameter	3.0 mm round, ribbon—no jacket, ribbon with jacket
Polish	APC, PC
Insertion loss	SMF: 0.33 dB (typical) MMF: 0.30 dB (typical)
Return loss	SMF: ≥ 55 dB (APC) MMF: ≥ 20 dB (PC)
Operating temperature	-40°C to 75°C
Housing color	SMF: Green (APC) MMF: Aqua (OM3/4/5), Beige (OM1)
Standard compliance	TIA 568-3. D



Qwik-Fuse MPO connector kits

Material ID	Description	Connector	Fiber	Cable	Housing color	Package
760163956	MFC-12MX-5SP-30-AQ	MPO-PC, pinned	OM3/4/5	12f round, 3.0 mm	Aqua	Single
760163964	MFC-12MP-5SP-30-AQ	MPO-PC, unpinned	OM3/4/5	12f round, 3.0 mm	Aqua	Single
760163972	MFC-12MX-6SP-30-BG	MPO-PC, pinned	OM1	12f round, 3.0 mm	Beige	Single
760163980	MFC-12MP-6SP-30-BG	MPO-PC, unpinned	OM1	12f round, 3.0 mm	Beige	Single
760163931	SFC-12MX-8SP-30-GR	MPO-APC, pinned	OS2	12f round, 3.0 mm	Green	Single
760163949	SFC-12MP-8SP-30-GR	MPO-APC, unpinned	OS2	12f round, 3.0 mm	Green	Single
760200063	MFC-12MX-5SP-RN-AQ	MPO-PC, pinned	OM3/4/5	12f ribbon, no jacket	Aqua	Single
760200089	MFC-12MP-5SP-RN-AQ	MPO-PC, unpinned	OM3/4/5	12f ribbon, no jacket	Aqua	Single
760200071	MFC-12MX-5SP-RC-AQ	MPO-PC, pinned	OM3/4/5	12f ribbon, with jacket	Aqua	Single
760200097	MFC-12MP-5SP-RC-AQ	MPO-PC, unpinned	OM3/4/5	12f ribbon, with jacket	Aqua	Single
760200022	SFC-12MX-8SP-RN-GR	MPO-APC, pinned	OS2	12f ribbon, no jacket	Green	Single
760200048	SFC-12MP-8SP-RN-GR	MPO-APC, unpinned	OS2	12f ribbon, no jacket	Green	Single
760200030	SFC-12MX-8SP-RC-GR	MPO-APC, pinned	OS2	12f ribbon, with jacket	Green	Single
760200055	SFC-12MP-8SP-RC-GR	MPO-APC, unpinned	OS2	12f ribbon, with jacket	Green	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)

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

COMMSCOPE®

commscope.com

Visit our website or contact your local CommScope representative for more information.

© 2020 CommScope, Inc. All rights reserved.

All trademarks identified by ® or ™ are registered trademarks or trademarks, respectively, of CommScope, Inc. This document is for planning purposes only and is not intended to modify or supplement any specifications or warranties relating to CommScope products or services. CommScope is committed to the highest standards of business integrity and environmental sustainability with a number of CommScope's facilities across the globe certified in accordance with international standards, including ISO 9001, TL 9000, and ISO 14001. Further information regarding CommScope's commitment can be found at www.commscope.com/About-Us/Corporate-Responsibility-and-Sustainability.

CO-113709.1-EN (07/20)