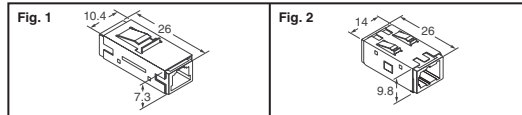


Fig.	Description	External Color	Digi-Key Part No.	Price Each			Hirose Part No.
				1	10	50	
1	SC Hybrid SC/FC, Angled	—	H11437-ND	15.15	14.65	13.64	HSCJ-HRFCJ-B(40)
2	SC Hybrid SC/FC, Straight	—	H11438-ND	16.12	15.17	13.75	HSCJ-HRFCJ-C(40)
3	Panel Mount, Die Cast, Zirconia	—	H2495-ND	14.04	13.22	11.98	HSC-A2-D1
4	Panel Mount, Plastic, Zirconia	Blue	H2496-ND	7.25	6.14	5.17	HSC-A3-D1(02)
5	F-type, Zirconia	Blue	H2497-ND	16.32	15.36	13.92	HSCF-2A-D(P)
6	Non-Flange, Phosphor Bronze	—	H11439-ND	12.84	11.88	10.66	HRFC-A2-SF(41)
7	Cost-Effective, Phosphor Bronze	—	H11440-ND	10.58	9.79	8.79	HRFC-PA11-G1(40)

**A**

**MU Connectors and Adapters**



**Ferrule**

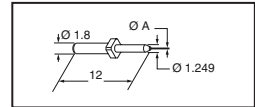


Fig.	Description	Digi-Key Part No.	Price Each			Hirose Part No.
			1	10	50	
1	Simplex Patch Panel Mount Adapter	H2502-ND	13.89	13.08	11.85	HMUA-A-3
2	Duplex Patch Panel Mount Adapter	H2503-ND	15.35	14.45	13.10	HMUA-2A-3

Dimension A (mm)	Digi-Key Part No.	Price Each			Hirose Part No.
		1	10	50	
0.125	H2514-ND	7.46	6.32	5.31	HMUA-F3-A125
0.1255	H2515-ND	7.54	6.38	5.37	HMUA-F3-A1255

**OMRON Optical Communication Devices**

Omron has achieved the world's smallest optical device by combining Omron's Micro Lens Array with thin film filters in a proprietary structure. This minimizes costs by reducing the number of internal parts. Omron's optical switches (1 x 2 and 2 x 2) use a low power consumption with a latching function. The numbers of components are reduced using a complex prism and are able to accommodate SC type fiber optic connectors. Applications include fault response, maintenance, (OXC) Optical Cross Connect Circuit, (OADM) Optical Add/Drop Multiplex Circuit.

Omron's 4 channel and 8 channel Mux and Demux devices are SC connector compatible for transceiver and transponder applications. Using Omron's proprietary Micro Lens Array structure makes these the world's smallest and most cost effective Mux/Demux available. Use for CWDM, LX4, B-PON, E-PON, G-PON and (OADM) Optical Add/Drop Multiplex Circuit.

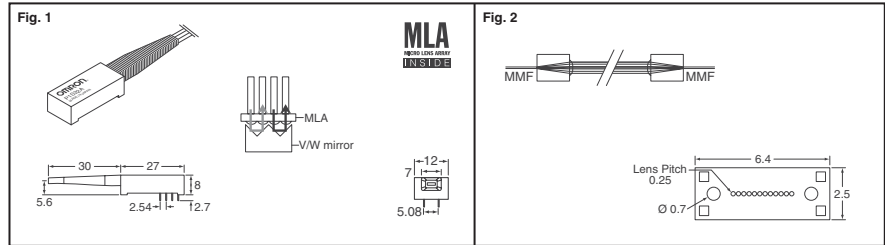


Fig.	Description	Digi-Key Part No.	Price Each	Omron Part No.
1	Fiber Optic 8 Channel Demux, 1471nm Wavelength, SC Connector	Z2212-ND	1251.00	P1X8A-DX1471S20-SC
	Fiber Optic 8 Channel Mux, 1471nm Wavelength, SC Connector	Z2213-ND	1251.00	P1X8A-MX1471S20-SC
2	Collimator Flat Lens Array, 1 x 12, AirGap 1.5mm	Z2214-ND	63.90	P1L12A-C1
	Collimator Flat Lens Array, 1 x 12, AirGap 2.5mm	Z2215-ND	63.90	P1L12A-C2
-	Focuser Flat Lens Array, 1 x 12, V-L=0.3mm, L-F=0.3mm	Z2216-ND	63.90	P1L12A-F1
	Focuser Flat Lens Array, 1 x 12, VCSEL-Lens=0.2mm	Z2217-ND	63.90	P1L12A-F2
	Right Angle Focuser Flat Lens Array, 1 x 12, V-L=0.3mm, L-F=0.5mm	Z2219-ND	95.85	P1L12C-F1
	Right Angle Focuser Flat Lens Array, 1 x 12, F-L=0.4mm	Z2218-ND	95.85	P1L12C-F2

**AMP Fiber Optics OPTIMATE® DNP (Dry Non-Polish) Connectors**

**Optical Characteristics:** • Insertion Loss: 2dB • Ref.: FOTP 34 Method C **Environmental Characteristics:** • Temperature Range: -40°C - 60°C **Mechanical Characteristics:** • Insertion Force: 13.34N [3 lb.] (plug to receptacle) • Cable retention plug: 8.89N [2 lb.] **Materials:** • Retention Clip: Copper alloy, plated • Splice: Copper alloy, plated • Connectors: Thermoplastic

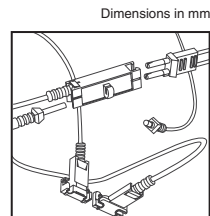
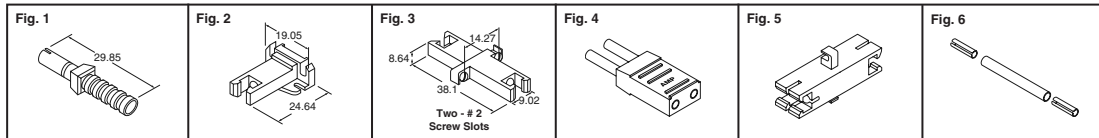


Fig.	Description	Digi-Key Part No.	Pricing		AMP Part No.
			1	25	
1	Single Position Plug Assembly	A1703-ND	.94	18.28	228087-1
2	Single Position Device Mounts	A1705-ND	.96	20.77	228043-1
3	Single Position Bulkhead Receptacle	A1707-ND	1.69	36.56	228042-1
4	Dual Position Plug Assembly	A20128-ND	2.39	51.75	228088-1
5	Dual Position Bulkhead Receptacle	A20129-ND	1.74	37.69	228045-1
6	Plastic Fiber Splice and Retention Clip	A20131-ND	.23	4.07	228046-1

Description	Digi-Key Part No.	Pricing		AMP Part No.
		1	5	
Hot Knife, Plastic Fiber	A99100-ND	63.35	271.50	228085-1
Single Position Plastic Cutting Fixture	A99102-ND	87.01	372.90	228837-1

RoHS Compliant

Digi-Key Part No.	Note: X in Part No. = Meter Per Roll FIBER OPTIC CABLE (O.D. = .089)					
	Price (Meter)					
A1700-X-ND	5	10	15	25	50	100
	11.37	21.11	30.69	48.72	81.20	176.85

RoHS Compliant

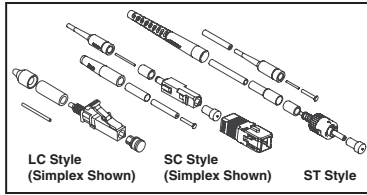
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# AMP Fiber Optic Connectors and Accessories

## LightCrimp PLUS Connectors

No Epoxy / No Polish (NENP)



Features: • Epoxyless • Pre-Polished • Mates with standard couplers, adapters and adapter plates • Meets TIA/EIA 568-B.3 • Temperature Range: -10°C ~ 60°C (Tested to -40°C ~ 75°C)

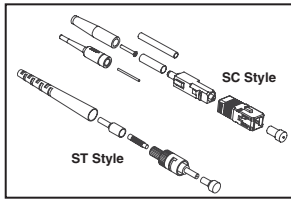
Connector Type	Fiber Type	Housing Color	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
<b>LC Style</b>						
Simplex	Singlemode	Blue	A36314-ND	24.75	22.00	6754482-1
	XG 50/125 µm Multimode	Gray	A36315-ND	19.13	17.00	6754483-3
	62.5/125 µm Multimode	Gray	A36316-ND	19.13	17.00	6754483-1
Duplex	XG 50/125µm Multimode	Gray	A36317-ND	38.25	34.00	6754485-3
	62.5/125 µm Multimode	Gray	A36318-ND	38.25	34.00	6754485-1
<b>SC Style</b>						
Simplex	Singlemode	Blue	A36319-ND	24.75	22.00	6693276-1
	XG 50/125 µm Multimode	Gray	A36320-ND	15.75	14.00	6588291-1
	62.5/125 µm Multimode	Beige	A36321-ND	15.75	14.00	5492643-1
Duplex	XG 50/125 µm Multimode	Gray	A36322-ND	31.50	28.00	6588292-1
	62.5/125 µm Multimode	Beige	A36323-ND	31.50	28.00	6278009-1
<b>ST Style</b>						
ST	Singlemode	Metallic	A97948-ND	24.75	22.00	1828953-3
	50/125 µm Multimode	Metallic	A36324-ND	14.63	13.00	6278082-1
	62.5/125 µm Multimode	Metallic	A36373-ND	14.63	13.00	5492642-1

## LightCrimp PLUS Kits, Tools and Accessories

Description	Digi-Key Part No.	Price Each	AMP Part No.
<b>LightCrimp PLUS Termination Kits</b>			
Universal (LC, SC and ST)	A99122-ND <b>NEW!</b>	1421.09	1278118-4
Universal (LC, SC and ST) Premium	A36344-ND	2703.68	1278118-5
LC	A36346-ND	1687.20	1754845-2
SC	A36345-ND	1779.23	1278022-2
ST	A36347-ND	1761.45	492697-2
Upgrade LC	A36348-ND	94.34	1754847-2
Upgrade SC	A36349-ND	180.05	1754847-3
Upgrade ST	A36350-ND	136.67	1754847-4
<b>Cable/Buffer Holder</b>			
LightCrimp PLUS LC	A36355-ND	9.00	1754138-1
LightCrimp PLUS SC	A36363-ND	9.00	1278023-1
<b>Die Sets and Hand Tools</b>			
LightCrimp Termination Handle	A99135-ND	89.76	2064431-1
LC Type and AMP SC/FC Type, Use with 2064431-1 Hand Tool	A36353-ND	224.21	1588175-1
LightCrimp PLUS LC, Use with 2064431-1 Hand Tool	A36354-ND	111.80	1754136-1
LightCrimp PLUS SC, Use with 2064431-1 Hand Tool	A36361-ND	197.51	492783-1
Pre-Crimper III Fiber Optic Hand Tool	A36400-ND	77.00	58532-1
LightCrimp PLUS and LightCrimp ST Die Set, Use w/ 2064431-1 Hand Tool	A97957-ND	154.26	492622-1
Kevlar Shears	A36351-ND	34.07	1278637-1
Strip Tool, Fiber Combination	A36352-ND	103.28	1278947-1
Micro-Strip Stripper with .008 Red Blades	A98550-ND	74.61	492109-2
Hand Held Precision Cleaver	A36360-ND	778.50	1871696-1
Cable Stripper, Optimate	A36362-ND	29.97	501198-1

## LightCrimp XTC Connectors

No Epoxy / Polish (NEP)



Features: • Epoxyless • Singlemode or multimode • Just crimp it on the fiber • 2-minute termination • Pre-radiused PC finish • Body Material: Epoxyless aluminum; Epoxy polymer • Coupling Nut Material: Multimode epoxyless polymer; Singlemode epoxyless die cast; Epoxy - die cast zinc • Storage Temperature Range: -40°C ~ 85°C

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB Average	Operating Temperature Range (°C)	Durability Cycles, <20 (dB) Change	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
<b>ST Style Connectors</b>									
125	Multi	Plastic	0.4	-40 ~ 65	500	A32610-ND	7.97	7.08	5492168-1
125	Multi	Stainless Steel	0.4	-10 ~ 65	500	A32611-ND	10.26	9.12	5504034-1
125	Single	Ceramic	0.2	-40 ~ 65	500	A97945-ND	24.89	22.12	5504000-1
125	Multi	Ceramic	0.4	-40 ~ 65	1000	A33708-ND	12.44	11.06	5504001-1
<b>SC Style Simplex Connectors</b>									
125	Multi	Ceramic	0.4	-40 ~ 65	500	A97946-ND	14.36	12.76	5503692-1
<b>SC Style Duplex Connectors</b>									
125	Multi	Ceramic	0.4	-40 ~ 65	500	A97947-ND	29.90	26.58	5503693-1

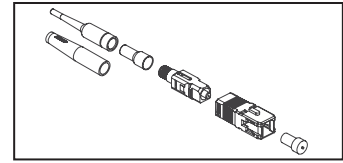
## LightCrimp XTC Kits and Accessories

**Polishing (Lapping) Film Packets:** Polishing film sheets are used with polishing bushings for hand polishing of fiber optic connectors. Most part numbers consist of a packet of ten 8.5" x 11.0" (21.59cm x 27.94cm) sheets. Each packet will polish between 60 and 80 connectors.

Description	Digi-Key Part No.	Price Each	AMP Part No.
<b>Polishing (Lapping) Film Sheets</b>			
5µm, Light Gray, (multiples of 10 sheets)	A20221-ND	16.98	228433-8
1µm, Green, (multiples of 10 sheets)	A20222-ND	16.98	228433-7
0.3µm, White, (multiples of 10 sheets)	A20223-ND	16.98	228433-5

## SC Connectors

Epoxy / Polish

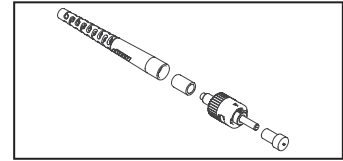


Features: • Fastest Assembly • Field installable • Anaerobic epoxy compatible • For 125µm cladding diameter • Insertion Loss: <0.2dB Typical

Mode Type	Housing Color	Durability Cycles	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
Single	Blue	200	A36327-ND	5.40	4.80	5504646-7
Multi	Beige	500	A36326-ND	4.73	4.20	5503948-5

## ST Connectors

Epoxy / Polish

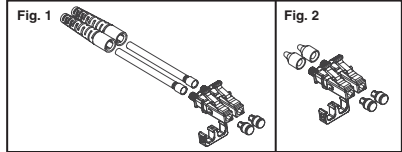


Features: • Pre-Polished • Mates with standard couplers, adapters and adapter plates • Temperature Range: -10°C ~ 60°C • Meets TIA/EIA 568-B.3

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB Average	Operating Temperature Range (°C)	Durability Cycles, <20 (dB) Change	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
125	Multi	Ceramic	0.4	-20 ~ 75	1000	A33709-ND	5.40	4.80	5501380-1
125	Multi	Stainless Steel	0.3	-20 ~ 75	500	A33710-ND	8.01	7.12	5504008-3
125	Multi	Ceramic	0.4	-20 ~ 75	1000	A21005-ND	2.70	2.40	5503571-1
125	Multi	Composite	0.3	-20 ~ 75	5000	A33712-ND	2.23	1.98	5503415-1
125	Single	Zircon/Ceramic	0.3	-20 ~ 75	5000	A35056-ND	5.18	4.60	5502579-2
126	Single	Ceramic	0.3	-20 ~ 75	200	A36325-ND	5.18	4.60	5502580-2
140	Multi	Stainless Steel	0.3	-30 ~ 75	500	A33711-ND	8.01	7.12	5504008-7

## LC Connectors

Epoxy / Polish

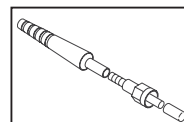


Features: • Insertion Loss: 658870x-x: 0.5dB Typical; 19183xx-x: 0.2dB Typical • Durability Cycles: 500 • Operating Temperature: -40°C ~ 75°C

Fig.	Housing Color	Description	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
1	Beige	Multimode, Duplex, 900 µm	A98552-ND	8.44	7.50	1918388-1
	Blue	Multimode, Duplex, 1.6-2.0 mm	A36328-ND	11.14	9.90	6588707-1
	Blue	Singlemode, Duplex, 1.6-2.0 mm	A97949-ND	9.56	8.50	1918372-1
2	Blue	Singlemode, Duplex, 900 µm	A97950-ND	9.11	8.10	1918387-1

## FSMA Connectors

Features: • Industry compatible with 905 and 906 style connectors • Design parameters conform to NATO and IEC interface standards • Ferrule Material: Stainless steel • Connector Body Material: Nickel-Plated brass Performance Characteristics: • Insertion Loss: 1.5dB Typical • Temperature Range: -55°C ~ 105°C • Durability: 200 mating cycles



Description	Fiber Diameter	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
FSMA Conn. (905)	125µm	A33720-ND	12.17	10.82	5504566-1
FSMA Conn. (906)	125µm	A36218-ND	13.84	12.30	5504014-1
FSMA Conn. (905)	140µm	A29100-ND	15.01	13.34	504566-2
FSMA Conn. (905)	140µm	A33721-ND	12.17	10.82	5504566-2
FSMA Conn. (905)	100µm	A33722-ND	12.17	10.82	3-5504566-0

◆ RoHS Compliant

## SC, ST, LC and FSMA Kits, Tools and Accessories

**Termination Kits: For AMP FSMA, and SC Style:** Termination kits provide all the materials and tools (except epoxy) required to terminate a particular type of fiber optic connector. Tools are conveniently packaged in a handy carrying case. The kits contain polishing materials for approximately 60 connectors. The consumable items in the kit can be purchased separately.

**Consumables Kits:** Contains all consumable supplies for at least 100 connectors. Epoxy (general purpose), polish film, epoxy applicators and polish pad. Features: • Pre-centered adapter mount provides quick, easy focusing, and changing of connectors • Kg-3 infrared filter to protect the user • Durable, lightweight A.B.S. plastic microscope body • Lockable, high density polyethylene, double-well carrying case with antistatic foam cut-outs

Description	Digi-Key Part No.	Price Each	AMP Part No.
<b>Epoxy Type Termination Kits (Epoxy Sold Separately)</b>			
FSMA	A9835-ND	786.24	503746-2
SC	A9829-ND	845.67	503746-7
LC	A97956-ND	899.69	1754603-1
<b>Scribing Tools</b>			
Sapphire-Tipped Scribe Tool	A99109-ND	51.03	504064-1
Replacement Blades for A99109-ND	A99110-ND	46.32	504290-1
<b>Consumables Kits — RoHS Compliant</b>			
FSMA, FSD, ST Style	A9836-ND	253.63	502306-1
<b>Epoxy Curing Oven</b>			
110VAC Oven with Adapter Block - Universal Block*	A20220-ND	736.70	502134-1

\* Universal block 12 single and 4 FSD Connectors

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