

FEATURES AND SPECIFICATIONS

Features and Benefits

- SMC to HBMT or BMTP cable assemblies provide a transition from the board to the backplane adapters without splicing
- Fanouts to simplex fiber connectors require no splicing resulting in cost reduction
- High precision guide pins and ferrules ensure precise alignment resulting in improved IL performance
- Side latching mechanism provides reliable and quick mating
- SMC adapters incorporate an integrated EMI shield and internal shutter, designed to reduce EMI emissions

SMC connectorized ribbon fiber cable assemblies provide reliable high performance interconnects of up to 24 fibers in a small footprint. The SMC connectors utilize the precision molded NTT compatible ferrule that connects from 4 up to 24 fibers using bare ribbon or ruggedized ribbon cable. Alignment between mating ferrules is accomplished using 2 precision guide pins that are pre-installed in the designated

Applications

- High density interconnects for:
 - Telephony central office and local loop
 - Data communications
- Provides interconnect for parallel optical transmitters and receivers

Reference Information

Connector Body Material: Polymer
 Connector Ferrule Material: Polymer
 Ferrule Hole Size: 125 μ m
 Housing: UL V-0
 SMC sold as terminations only

male connector. The SMC connectors feature an easy-to-grip and actuate side-latching mechanism.

SMC to HBMT or SMC to BMTP cable assemblies are available to interconnect optical devices using the SMC interfaces on the daughter card to Molex Fiber Optics HBMT and BMTP adapters on the backplane.



Multiple transitions between ribbon cable to individual fibers are available to meet a variety of fiber routing requirements. Fanouts to single fiber leads connectorized with Molex industry standard LC, MU, SC, FC, and ST connectors are available to interconnect with the current installed base of transmitters, receivers and patch panels.

ORDERING INFORMATION

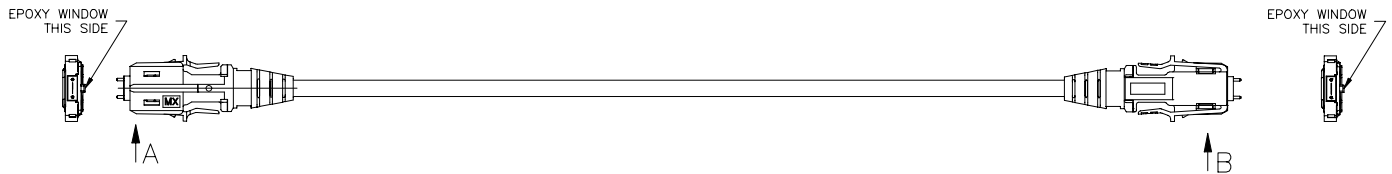
Connectors

Part No.	Body Length	Connector	Gender	Mode	Insertion Loss At Test	Low Loss	APC	Cable Type	Ferrule Port	Mates With	Comment
86007-3010	Black	Short	Male	Multimode	.75dB			Bare Fiber	4	86107-0000	Sold Terminated Only
86007-3020	Black	Short	Male	Multimode	.75dB			Bare Fiber	8	86107-0000	Sold Terminated Only
86007-3030	Black	Short	Male	Multimode	.75dB			Bare Fiber	12	86107-0000	Sold Terminated Only
86007-5040	Black	Short	Male	Singlemode	.75dB		Yes	Bare Fiber	4	86107-0000	Sold Terminated Only
86007-5050	Black	Short	Male	Singlemode	.75dB		Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86007-5060	Black	Short	Male	Singlemode	.75dB		Yes	Bare Fiber	12	86107-0000	Sold Terminated Only
86007-5070	Black	Short	Male	Singlemode	.5dB	Yes	Yes	Bare Fiber	4	86107-0000	Sold Terminated Only
86008-3010	Black	Short	Female	Multimode	.75dB			Bare Fiber	4	86107-0000	Sold Terminated Only
86008-3020	Black	Short	Female	Multimode	.75dB			Bare Fiber	8	86107-0000	Sold Terminated Only
86008-3030	Black	Short	Female	Multimode	.75dB			Bare Fiber	12	86107-0000	Sold Terminated Only
86008-5040	Black	Short	Female	Singlemode	.5dB	Yes	Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86008-5050	Black	Short	Female	Singlemode	.75dB		Yes	Bare Fiber	4	86107-0000	Sold Terminated Only
86008-5060	Black	Short	Female	Singlemode	.75dB		Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86008-5070	Black	Short	Female	Singlemode	.75dB		Yes	Bare Fiber	12	86107-0000	Sold Terminated Only
86007-3110	Black	Medium	Male	Multimode	.75dB			Bare Fiber	4	86107-0000	Sold Terminated Only
86007-3120	Black	Medium	Male	Multimode	.75dB			Bare Fiber	8	86107-0000	Sold Terminated Only
86007-3130	Black	Medium	Male	Multimode	.75dB			Bare Fiber	12	86107-0000	Sold Terminated Only
86007-5140	Black	Medium	Male	Singlemode	.75dB		Yes	Bare Fiber	4	86107-0000	Sold Terminated Only
86007-5150	Black	Medium	Male	Singlemode	.75dB		Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86007-5160	Black	Medium	Male	Singlemode	.75dB		Yes	Bare Fiber	12	86107-0000	Sold Terminated Only
86007-5170	Black	Medium	Male	Singlemode	.5dB	Yes	Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86008-3110	Black	Medium	Female	Multimode	.75dB			Bare Fiber	4	86107-0000	Sold Terminated Only
86008-3120	Black	Medium	Female	Multimode	.75dB			Bare Fiber	8	86107-0000	Sold Terminated Only
86008-3130	Black	Medium	Female	Multimode	.75dB			Bare Fiber	12	86107-0000	Sold Terminated Only
86008-5140	Black	Medium	Female	Singlemode	.5dB	Yes	Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86008-5150	Black	Medium	Female	Singlemode	.75dB		Yes	Bare Fiber	4	86107-0000	Sold Terminated Only
86008-5160	Black	Medium	Female	Singlemode	.75dB		Yes	Bare Fiber	8	86107-0000	Sold Terminated Only
86008-5170	Black	Medium	Female	Singlemode	.75dB		Yes	Bare Fiber	12	86107-0000	Sold Terminated Only
86007-3310	Black	Extra Long	Male	Multimode	.75dB			Jacketed Fiber	4	86107-0000	Sold Terminated Only
86007-3320	Black	Extra Long	Male	Multimode	.75dB			Jacketed Fiber	8	86107-0000	Sold Terminated Only
86007-3330	Black	Extra Long	Male	Multimode	.75dB			Jacketed Fiber	12	86107-0000	Sold Terminated Only
86007-5350	Black	Extra Long	Male	Singlemode	.75dB		Yes	Jacketed Fiber	8	86107-0000	Sold Terminated Only
86007-5360	Black	Extra Long	Male	Singlemode	.75dB		Yes	Jacketed Fiber	12	86107-0000	Sold Terminated Only
86007-5370	Black	Extra Long	Male	Singlemode	.5dB	Yes	Yes	Jacketed Fiber	8	86107-0000	Sold Terminated Only
86008-3310	Black	Extra Long	Female	Multimode	.75dB			Jacketed Fiber	4	86107-0000	Sold Terminated Only
86008-3320	Black	Extra Long	Female	Multimode	.75dB			Jacketed Fiber	8	86107-0000	Sold Terminated Only
86008-3330	Black	Extra Long	Female	Multimode	.75dB			Jacketed Fiber	12	86107-0000	Sold Terminated Only
86008-5340	Black	Extra Long	Female	Singlemode	.5dB	Yes	Yes	Jacketed Fiber	8	86107-0000	Sold Terminated Only
86008-5350	Black	Extra Long	Female	Singlemode	.75dB		Yes	Jacketed Fiber	4	86107-0000	Sold Terminated Only
86008-5360	Black	Extra Long	Female	Singlemode	.75dB		Yes	Jacketed Fiber	8	86107-0000	Sold Terminated Only
86008-5370	Black	Extra Long	Female	Singlemode	.75dB		Yes	Jacketed Fiber	12	86107-0000	Sold Terminated Only

Characteristics	Units	Typical	Maximum At Test	Comments
Insertion Loss 4, 8 or 12 Fiber Ferrules 9/125 μ m Singlemode Ferrule 62.5/125 μ m Singlemode Ferrule 50/125 μ m Singlemode Ferrule	-dB	.3	.75 .5 .5	Angled Polish Flat Polish Flat Polish
Insertion Loss 8 Fiber Ferrule Low Loss Ferrule 9/125 μ m Singlemode Ferrule	-dB	.15	.5	Angled Polish
Insertion Loss 24 Fiber Ferrules 9/125 μ m Singlemode Ferrule 62.5/125 μ m Singlemode Ferrule 50/125 μ m Singlemode Ferrule	-dB	.4	1.0	Angled Polish Flat Polish Flat Polish
Return Loss Singlemode	-dB	55	<50	Flat Polish
Cable Assembly Length	M	1 to 10 meters	2000 meters	Greater than 100 meters will be spooled
Temperature Range	°C		+70	Connector rated to 80°C Fiber rated to 70°C

SMC TO SMC

CATALOG DRAWINGS (FOR REFERENCE ONLY)



SMC TO LC

