

EZ-MATE™ CONNECTORS

Features and Benefits

FEATURES			BENEFITS
Field Convertible Hermaphroditic Plug Design*			Either a Plug-to-Plug assembly on a reel can be instantly provisioned for male (daisy-chain) or female connectivity.
Field Convertible Hermaphroditic Plug Dust Cap Design			The Hermaphroditic Dust Plug Cap is instantly provisioned with mating dust cap to allow dust cap coupling.
Retentive Ceramic Split Sleeves	 <p data-bbox="500 990 737 1027">2.5mm split sleeve retained in 4 CH and 12 CH Insert Cap</p>	 <p data-bbox="834 990 1071 1027">2.0mm split sleeve retained in 6 CH and 24 CH Insert Cap</p>	Ceramic Split Sleeves are retained by Insert Cap preventing sleeves becoming misplaced during maintenance routines.
Enhanced Kevlar™ Retention System			Supports 400lb cable retention without degradation of optical signal.
Sealed Termini Design	 <p data-bbox="488 1456 753 1483">TC1640CA used in 4 CH and 12 CH</p>	 <p data-bbox="823 1456 1088 1483">TC1440CA used in 6 CH and 24 CH</p>	4 CH, 6 CH, 12 CH, and 24 CH Systems utilize Sealing, Environmentally Resistance to meet IP-68 requirements.
Easy Termination Capability			EZ-MATE™ Integrated “Push-Pull” system allows operators to terminate EZ-MATE™ Plugs and Receptacles in an efficient, simple format.

EZ-MATE™ CONNECTORS

Standard Configurations (options and modifications available)

	
<p>CCCA10B11CA Ez-Mate™ 2-4 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.190-0.239"</p>	<p>CCCB22B11C Ez-Mate™ 2-4CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap</p>
	
<p>CCCA10C11CB Ez-Mate™ 4-6 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Black Anodize, Cable Dia. 0.240-0.279"</p>	<p>CCCB22C11C Ez-Mate™ 4-6 CH Jam-Nut Fiber Optic Receptacle & Dust Cap, Black Anodize, Cable Dia. 0.240-0.279"</p>
	
<p>CCCA10F11CB Ez-Mate™ 8-12 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Black Anodize, Cable Dia., 0.240-0.279"</p>	<p>CCCB22F11C Ez-Mate™ 8-12 CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap, Black Anodize</p>
	
<p>CCCA10M11CD Ez-Mate™ 18-24 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Black Anodize, Cable Dia. 0.316-0.346"</p>	<p>CCCB22M11C Ez-Mate™ 8-12 CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap, Black Anodize</p>

EZ-MATE™ CONNECTORS

Performance Specifications

PERFORMANCE SPECIFICATION		
PERFORMANCE	SPECIFICATION	PARAMETER
Insertion loss (multimode)	EIA/TIA-455-171	0.50dB – Typical, 0.75dB – Maximum
Insertion loss (single-mode)	EIA/TIA-455-171	0.40dB – Typical, 0.75dB – Maximum
Back reflection (single-mode UPC polish)	EIA/TIA-455-107	-50dB – Typical, -40dB – Maximum
Operating temperature	TIA/EIA-455-5	-54° C to + 71° C
Storage temperature	TIA/EIA-455-5	-57° C to + 85° C
Mating Durability	TIA-455-21	1000 cycles
Impact	TIA/EIA-455-2	Method B, Omit wall pipe
Twist	TIA-455-36	±90° rotation, one cycle/5 sec., 1000 cycles
Cable Sealing Flex	EIA/TIA-455-1	Procedure I
Cable Retention	TIA-455-6	400 lbs. min.
Crush Resistance	TIA-455-26	450 lbs.
Temperature Life	TIA/EIA-455-4	250 Hr, 85 ± 2°C
Thermal Shock	TIA-455-71	Condition B-0 except 10 cycles, @ 85° C and -62° C
Physical Shock	EIA/TIA-455-11	Condition C, 5 shocks/axis,
Vibration	TIA-455-1	Condition III & VI Condition C for 1.5hr, Except III
Humidity	EIA/TIA-455-5	Type II,
Salt Spray ²	EIA/TIA-455-16	Condition C
Fluid Immersion	EIA/TIA-455-12	All fluids subject to 24 hours
Water Submersion	EIA/TIA-455-98	Method A, Procedure 1, 1m for 24 hours. Bulkhead mounted in water tight cube
Flammability	EIA-364-8	
Mud Test	M83526, paragraph 4.8	5 min. immersion, 10 cycles
Electromagnetic Effects	IEEE-299	20kHz, 150kHz, 14MHz, 400MHz, 600MHz, 1GHz, 2GHz, 8GHz, 10GHz, VERT. & HORZ., <-60dB

MATERIALS	
PART NUMBER	CONFIGURATION
Ferrule	2.5mm diameter ceramic ferrule
Exterior parts	Aluminum-Anodize
	Stainless Steel 303, 316 & Brass options
Interior parts	Aluminum-Anodize/Chemfilm
Hardware	Stainless steel, passivated
Seals	Nitrile
Boot	Selastec
Alignment sleeves	Ceramic split sleeve

NOTES

- ¹ Testing assumes qualification through similarity of various channel counts.
- ² Applies to ZINi plating only

EZ-MATE™ CONNECTORS

Ordering Information

EZ-MATE™ 2-4 CH CONNECTOR FAMILY

PART NUMBER	CONFIGURATION	DESCRIPTION
CCCA10Bk1CA	Plug	EZ-MATE 2-4 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.190-0.239"
CCCA10Bk1CB	Plug	EZ-MATE 2-4 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.240-0.279"
CCCB22Bk1C	Receptacle	EZ-MATE 2-4 CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap
CCCD22Bk1C	Receptacle	EZ-MATE 2-4 CH Flange Mnt Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCC22Bk1C	Receptacle	EZ-MATE 2-4 CH External Jam-Nut Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCE22Bk1CA	Strain Relief Receptacle	EZ-MATE 2-4 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.190-0.239"
CCCE22Bk1CB	Strain Relief Receptacle	EZ-MATE 2-4 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCG22Bk1CA	Strain Relief Receptacle	EZ-MATE 2-4 CH Flange Mnt Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.190-0.239"
CCCG22Bk1CB	Strain Relief Receptacle	EZ-MATE 2-4 CH Flange Mnt Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCF22Bk1CA	Strain Relief Receptacle	EZ-MATE 2-4 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.190-0.239"
CCCF22Bk1CB	Strain Relief Receptacle	EZ-MATE 2-4 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"

EZ-MATE™ 4-6 CH CONNECTOR FAMILY

PART NUMBER	CONFIGURATION	DESCRIPTION
CCCA10Ck1CB	Plug	EZ-MATE 4-6 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.240-0.279"
CCCA10Ck1CD	Plug	EZ-MATE 4-6 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.316-0.346"
CCCB22Ck1C	Receptacle	EZ-MATE 4-6 CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap
CCCD22Ck1C	Receptacle	EZ-MATE 4-6 CH Flange Mnt Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCC22Ck1C	Receptacle	EZ-MATE 4-6 CH External Jam-Nut Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCE22Ck1CB	Strain Relief Receptacle	EZ-MATE 4-6 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCE22Ck1CD	Strain Relief Receptacle	EZ-MATE 4-6 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.316-0.342"
CCCG22Ck1CB	Strain Relief Receptacle	EZ-MATE 4-6 CH Flange Mnt Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.190-0.239"
CCCG22Ck1CD	Strain Relief Receptacle	EZ-MATE 4-6 CH Flange Mnt Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCF22Ck1CB	Strain Relief Receptacle	EZ-MATE 4-6 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCF22Ck1CD	Strain Relief Receptacle	EZ-MATE 4-6 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.316-0.342"

EZ-MATE™ CONNECTORS

Ordering Information

EZ-MATE™ 8-12 CH CONNECTOR FAMILY

PART NUMBER	CONFIGURATION	DESCRIPTION
CCCA10Fk1CB	Plug	EZ-MATE 8-12 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.240-0.279"
CCCA10Fk1CF	Plug	EZ-MATE 8-12 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.380-0.423"
CCCB22Fk1C	Receptacle	EZ-MATE 8-12 CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap
CCCD22Fk1C	Receptacle	EZ-MATE 8-12 CH Flange Mount Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCC22Fk1C	Receptacle	EZ-MATE 8-12 CH External Jam-Nut Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCE22Fk1CB	Strain Relief Receptacle	EZ-MATE 8-12 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCE22Fk1CF	Strain Relief Receptacle	EZ-MATE 8-12 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.380-0.423"
CCCG22Fk1CB	Strain Relief Receptacle	EZ-MATE 8-12 CH Flange Mount Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCG22Fk1CF	Strain Relief Receptacle	EZ-MATE 8-12 CH Flange Mount Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.380-0.423"
CCCF22Fk1CB	Strain Relief Receptacle	EZ-MATE 8-12 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.240-0.279"
CCCF22Fk1CF	Strain Relief Receptacle	EZ-MATE 8-12 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.380-0.423"

EZ-MATE™ 18-24 CH CONNECTOR FAMILY

PART NUMBER	CONFIGURATION	DESCRIPTION
CCCA10Mk1CD	Plug	EZ-MATE 18-24 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.316-0.342"
CCCA10Mk1CH	Plug	EZ-MATE 18-24 CH Hermaphroditic Fiber Optic Plug & Dust Cap, Cable Dia. 0.466-0.515"
CCCB22Mk1C	Receptacle	EZ-MATE 18-24 CH Jam-Nut Fiber Optic Receptacle & Female Dust Cap
CCCD22Mk1C	Receptacle	EZ-MATE 18-24 CH Flange Mnt Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCC22Mk1C	Receptacle	EZ-MATE 18-24 CH External Jam-Nut Receptacle Fiber Optic Receptacle & Female Dust Cap
CCCE22Mk1CD	Strain Relief Receptacle	EZ-MATE 18-24 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.316-0.342"
CCCE22Mk1CH	Strain Relief Receptacle	EZ-MATE 18-24 CH Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.466-0.515"
CCCG22Mk1CD	Strain Relief Receptacle	EZ-MATE 18-24 CH Flange Mount Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.316-0.342"
CCCG22Mk1CH	Strain Relief Receptacle	EZ-MATE 18-24 CH Flange Mount Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.466-0.515"
CCCF22Mk1CD	Strain Relief Receptacle	EZ-MATE 18-24 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.316-0.342"
CCCF22Mk1CH	Strain Relief Receptacle	EZ-MATE 18-24 CH External Jam-Nut Strain Relief Receptacle (SRR) & Female Dust Cap, Cable Dia. 0.466-0.515"

EZ-MATE™ CONNECTORS

Ordering Information

TERMINI FOR 4CH AND 12 CH EZ-MATE™		
PART NUMBER	CONFIGURATION	DESCRIPTION
TC1640DA	Termini	2.5mm, Environmental Resisting, Fiber Optic Termini, 126um I.D.
TC1739AA	Termini	Dummy Termini
PC83522/16-20-S	Crimp Sleeve	Crimp Sleeve, used with 3.00mm Loose Tube Jacket
PA35395-99-017	Crimp Sleeve	Crimp Sleeve, used with 2.00mm Jacket Loose Tube Jacket

TERMINI FOR 6 CH AND 24 CH EZ-MATE™		
PART NUMBER	CONFIGURATION	DESCRIPTION
TC1440CA	Termini	COTS M29504/14 Pin 2.00mm Ceramic Ferrule, 126um I.D.
TC0339AA	Termini	Dummy Termini
PA35395-99-017	Crimp Sleeve	Crimp Sleeve, used with 2.00mm Jacket Loose Tube Jacket

PROVISIONING GUIDELINES

- 1) Select the number of Dummy Termini necessary to fill a connector. Example, when planning for an 8 CH application, select 4 dummy termini to complete a 12 CH size connector.
- 2) Crimp sleeves are recommended for use on receptacle configurations without Strain Relief. Crimp sleeves are generally used with 2.0mm simplex loose tube cable for receptacle pigtails. 4 CH and 12 CH EZ-MATE receptacles also allow for the use of 3.00mm loose fiber optic cable.

EZ-MATE™ CONNECTORS

Plating Options

PLATING OPTIONS

All EZ-MATE configurations are supplied with BLACK ANODIZE as standard Plating. For the additional plating options, the "k" in the 8th digit position of the part number (ex: CCCG22Mk1CD) is selected for the plating of choice.

- "1" Black Anodize, Mil-A-8625 TYPE 2 CLASS 2
- "3" Zinc Nickel Plating, SAE AMS 2417G
- "4" 303 Stainless Steel, Passivation per QQ-P-35/ASTMA967
- "5" 316 Stainless Steel, Passivation per QQ-P-35/ASTMA967
- "6" Naval Brass, C 46400 H02 Half Hard ASTMB 21/B21M



All EZ-MATE connectors can be utilized in any pre-terminated turn-key assemblies.

Available from:

CablesPlus

U ★ S ★ A

Cables Plus, LLC

8504 Glazebrook Ave Richmond, VA 23228 ~ Toll Free (866) 678-5852

www.CablesPlusUSA.com