

Expanded Beam Products

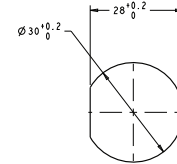
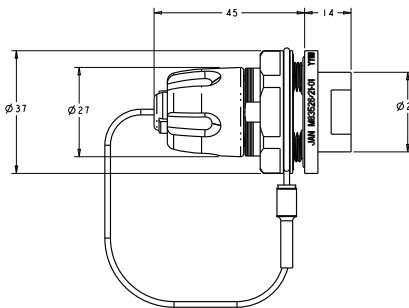
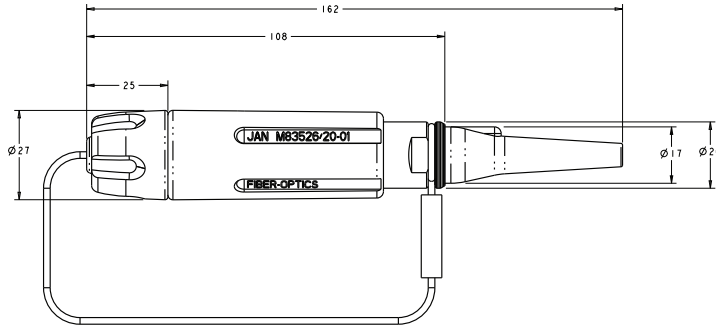
MIL-Qualified Connectors M83526/20 and M83526/21

The original now has a MIL-qualified version. The benchmark PRO BEAM Jr. connector series was the model for the MIL-DTL-83526/20 and /21 specifications. TE is now the first to gain full qualification to these specifications with TE's M83526/20 and M83526/21 connectors.

Product Facts

- MIL-qualified to MIL-DTL-83526/20B and MIL-DTL-83526/21B
- QPD- (Qualified Products Database) listed on <http://qpldocs.dla.mil/>
- VG-approval to VG 95319-100 and -101
- Fully intermateable and interoperable with the benchmark PRO BEAM Jr. connector series
- TE's patented Interference-Fit expanded beam design technology yields unmatched high performance and high reliability

TECHNICAL DOCUMENTS
408-32093 M83526/20 Plug
408-32107 M83526/21 Bulkhead
<http://te.com/documents>
MIL-DTL-83526/20B
MIL-DTL-83526/21B
<http://quicksearch.dla.mil>



MIL-DTL-83526 Connector Assembly Part Numbers

P/N	Part Number	Description
M83526/20-01	2064556-1	4 x 850/1300 MM Plug
M83526/20-02	2064557-1	4 x 1310 SM Plug
M83526/20-03	2064558-1	4 x 1550 SM Plug
M83526/20-04	2064559-1	2 x 850/1300 MM Plug
M83526/20-05	2064560-1	2 x 1310 SM Plug
M83526/20-06	2064561-1	2 x 1550 SM Plug
M83526/21-01	2064562-1	4 x 850/1300 MM Bulkhead
M83526/21-02	2064563-1	4 x 1310 SM Bulkhead
M83526/21-03	2064564-1	4 x 1550 SM Bulkhead
M83526/21-04	2064565-1	2 x 850/1300 MM Bulkhead
M83526/21-05	2064566-1	2 x 1310 SM Bulkhead
M83526/21-06	2064567-1	2 x 1550 SM Bulkhead

VG numbers assigned as reference docs. Mil spec detail sheets will be formal guidance for orders

MIL-DTL-83426/20 = VG 95319-100

MIL-DTL-83426/21 = VG 95319-101

MFOCA - Mixed Mode

P/N	DLA P/N	Type	Channels	Color
1516546-1	10023-03	Plug	2 MM + 2 SM	Brown
1516547-1	10023-01	Plug	2 SM	Green
1516548-1	10023-02	Plug	2 MM	Black
1516702-1	10024-03	Bulkhead	2 MM + 2 SM	Brown
1516703-1	10024-01	Bulkhead	2 SM	Green
1516704-1	10024-02	Bulkhead	2 MM	Black

* for cable assembly applications please contact your local TE representative

Expanded Beam Products (Continued)

PRO BEAM Mini Connectors

TE Connectivity is pleased to announce the natural extension from our PRO BEAM Sr. and Jr. Connector product lines.

The PRO BEAM Mini Connector saves space and weight and is perfect for high density applications. The product offers the same durability as its larger counterparts.



PRO BEAM Sr., Jr. & Mini Connectors



PRO BEAM Mini Plug Connector

Connector Assembly

- 1 Shell Kit
- 1 Insert Kit
- 1 Cable Adapter Kit*
- X Ferrule Kits (X = No. of optical channels)

*Not applicable for Low Profile

PRO BEAM Mini Connector Shell Kits

Type	Mount Style	Attribute Difference	Part Number			
			(HA Aluminum)	(OD Aluminum)	(NiAlBronze)	(Black Aluminum)
Plug		EPDM Grip	1828698-1	N/A	1828698-2	N/A
Bulkhead	D-Hole	Low Profile - Buffered Fiber	1828699-1	1828699-2 ♦	1828699-3	1828699-4
		Low Profile - 1.8 Jacketed	1985140-1	1985140-2 ♦	1985140-3	1985140-4
		Sealed	1918185-1	1918185-3	1918185-2	1918185-4
	Square Flange	Low Profile - Buffered Fiber	1828826-1	*	*	*
		Neutrik Cutout-Drop-In	1918603-1	*	*	*

* Contact TE for availability.

PRO BEAM Mini Insert Kits

Description	Part Number
2 x 850 / 1300 nm Dual Multimode	1374759-4
2 x 1310 nm Singlemode	1588129-2
2 x 1550 nm Singlemode	1588128-2
4 x 850 / 1300 nm Dual Multimode	1374759-2
4 x 1310 nm Singlemode	1588129-3
4 x 1550 nm Singlemode	1588128-3

PRO BEAM Mini Ferrule Kits

Fiber Hole Size	Mode	PRO BEAM Connector	Part Number
125 µm	SM	Mini	1754700-1
126 µm	SM	Mini	1754700-2
126 µm	MM	Mini	1754699-1

PRO BEAM Mini Cable Adapter Kits For Plug

Cable Diameter	Part Number	
	Aluminum	NiAlBronze
5.1 mm	1828700-1	1828700-5
5.6 mm	1828700-2	1828700-6
6.2 mm	1828700-3	1828700-7
6.7 mm	1828700-4	1828700-8

PRO BEAM Mini Cable Adapter Kits For Sealed Bulkhead

Cable Diameter	Part Number
5.1 mm	1516228-1
5.6 mm	1516228-2
6.2 mm	1516228-3

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

ASSEMBLY CAPABILITIES
TE Connectivity has extensive Rugged Optic Harness capabilities. Please consult your local TE Sales representative for assistance.

Standard color black for Polymer Grip Rings, Cap and Boots. Alternate colors available upon request.

Expanded Beam Products (Continued)

PRO BEAM Mini Connectors

Performance Specifications

Optical, Multimode Version

Insertion Loss, Typical* —
0.7 dB @ 1300 nm and 850 nm dual wavelength

Optical, Singlemode Version

Insertion Loss, Typical* —
0.8 dB @ 1310 nm or 1550 nm optimized wavelength

Return Loss** — > 34 dB @ 1310 nm or 1550 nm optimized wavelength

*When tested with reference quality launch/receive cable assemblies

**RL Tested Open Ended

Mechanical

Vibration, Sinusoidal —

10 - 500 Hz, 3 directions;
0.75 mm amplitude @ 10g acceleration

Bump — 4,000 Bumps, 3 directions
@ 40g acceleration

Free Fall — 500 falls on concrete;
Severity 1.2 m

Coupling Endurance —
3,000 couplings

Weight —

Plug — 50 grams, typical
D-Hole bulkhead — 39 grams, typical

Temperature

Operational Temperature —
-40°C/+85°C

Storage Temperature —
-55°C/+85°C

Temperature, Cyclic —
-55°C/+85°C

Humidity (Damp Heat) —95% RH

Immersion

Water — 5 m depth (plug) -
2 m (Bulkhead)

Pressure

Low Pressure — 25 kPa @ -55°C

Material and Finish

Shell Alloy — Aluminum; or nickel aluminum bronze (high saline environment)

Plating (For Aluminum Shells Only) — clear hard anodized; or green chromate conversion zinc or black zinc - nickel alloy (PRO BEAM Mini Bulkheads only)

Technical Documents

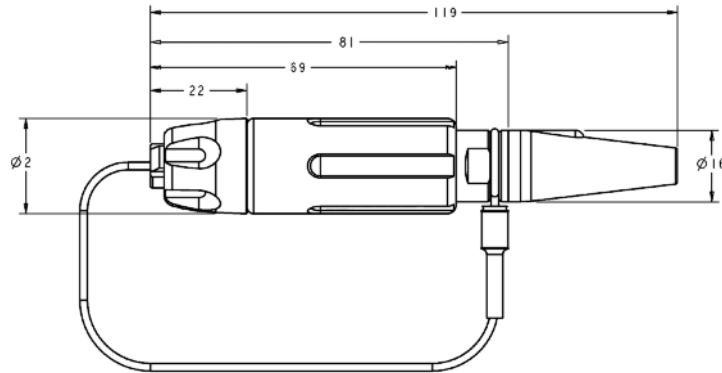
408-10065 Plug

408-10067 Square Flange Bulkhead

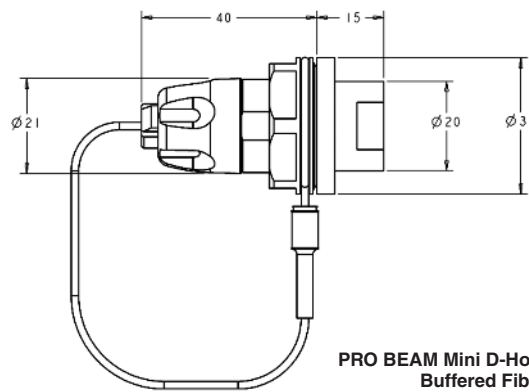
408-10069 Low Profile D-Hole Bulkhead

408-10076 Sealed D-Hole Bulkhead

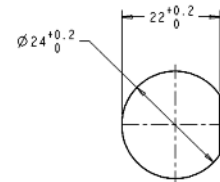
<http://www.te.com/documents>



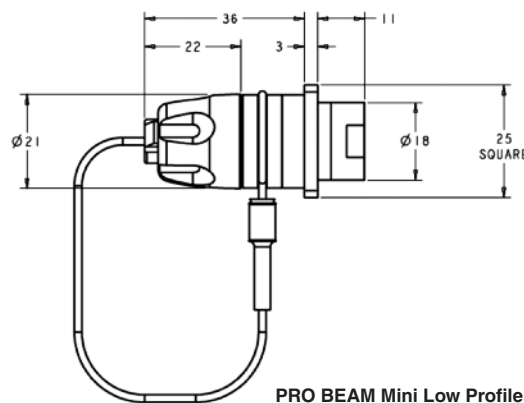
PRO BEAM Mini Cable Connector, Plug



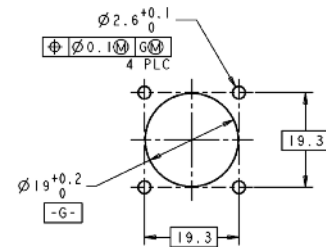
PRO BEAM Mini D-Hole Bulkhead Connector, Buffered Fiber, Low Profile



Recommended Panel Cutout



PRO BEAM Mini Low Profile, Square Flange Mount Bulkhead Connector

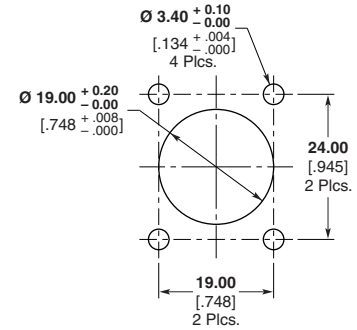
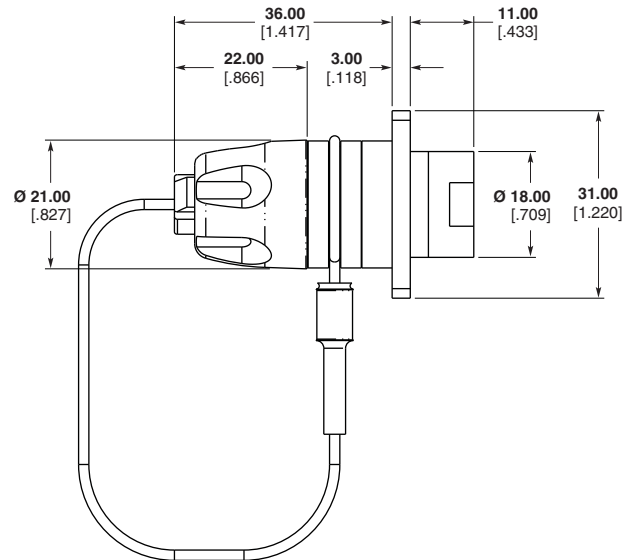


Recommended Panel Cutout

Expanded Beam Products (Continued)

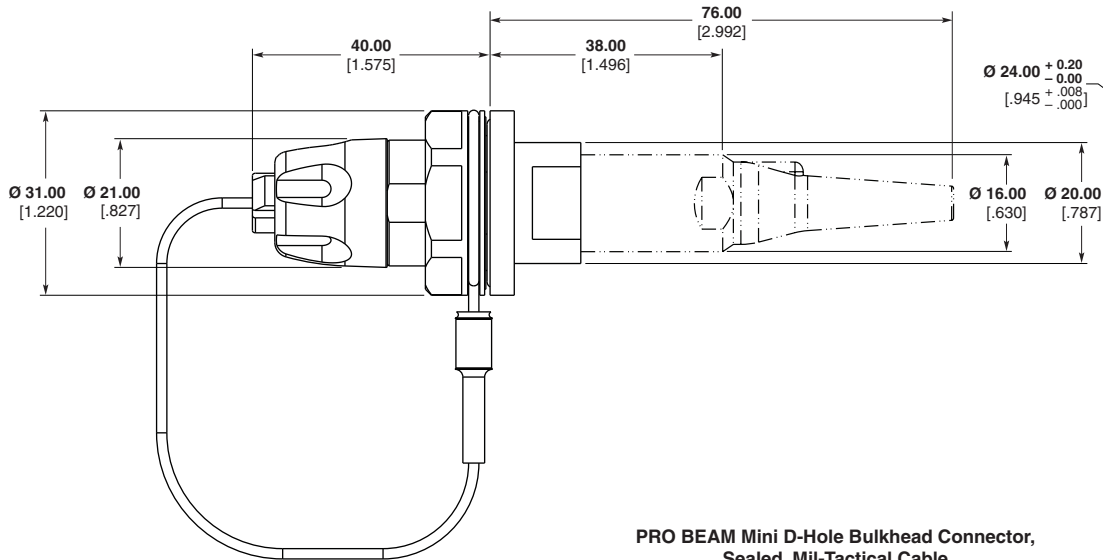
PRO BEAM Mini Connectors

(Continued)



Recommended Panel Cutout

PRO BEAM Mini Low Profile,
Alternate Square Flange Mount Bulkhead Connector



Recommended Panel Cutout

PRO BEAM Mini D-Hole Bulkhead Connector,
Sealed, Mil-Tactical Cable

Expanded Beam Products (Continued)

PRO BEAM Jr. Connectors

Performance Specifications

Optical, Multimode Version

Insertion Loss, Typical*—

0.7 dB @ 1300 nm and 850 nm dual wavelength

Optical, Singlemode Version

Insertion Loss, Typical*—

0.8 dB @ 1310 nm or 1550 nm optimized wavelength

Return Loss**— > 34 dB @ 1310

nm or 1550 nm optimized wavelength

*When tested with reference quality launch/receive cable assemblies

**RL Tested Open Ended

Mechanical

Vibration, Sinusoidal —

10 - 500 Hz, 3 directions;
0.75 mm amplitude @ 10g acceleration

Bump — 4,000 Bumps, 6 directions
@ 50g acceleration

Free Fall — 500 falls on concrete;
Severity 1.2 m

Coupling Endurance —
3,000 couplings

Weight —

Plug — 123 grams, typical
D-Hole bulkhead — 102 grams, typical

Temperature

Operational Temperature —

-40°C/+85°C

Storage Temperature —

-55°C/+85°C

Temperature, Cyclic —

-55°C/+85°C

Humidity (Damp Heat) —95% RH

Immersion

Water — 15 m depth (plug) -
15 m (Bulkhead)

Material and Finish

Shell Alloy — Aluminum; or nickel
aluminum bronze (high saline environ-
ment)

Plating (For Aluminum Shells

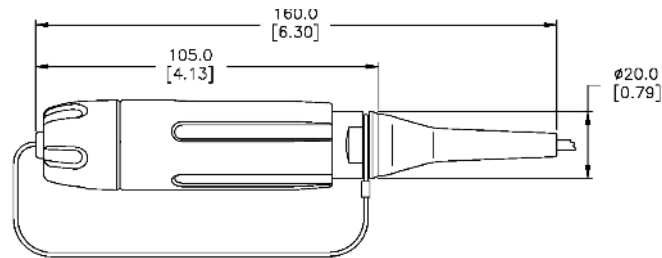
Only) — clear hard anodized; or green
chromate conversion zinc or black zinc -
nickel alloy (PRO BEAM Jr. Bulkheads
only)

Bulkhead Connector Panel Thicknesses

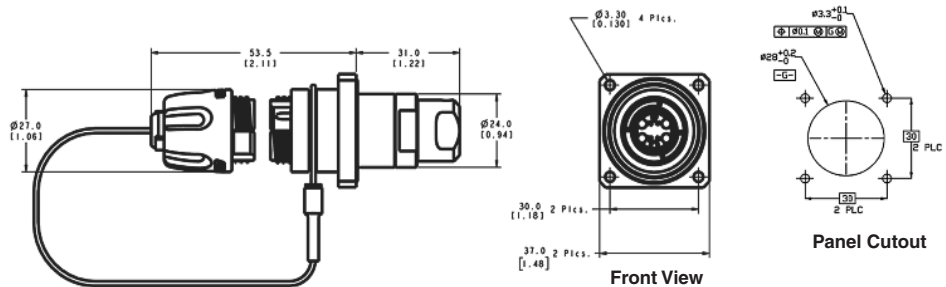
PRO BEAM Jr. Bulkhead Connector
D-Hole — 4 mm max.

PRO BEAM Jr. Bulkhead Connector
Square Flange — 6 mm max.

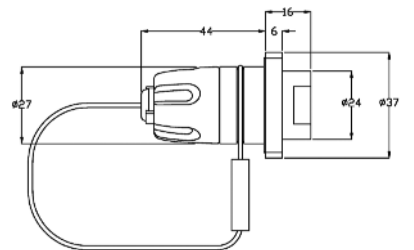
Standard color black for Polymer Grip
Rings, Cap and Boots. Alternate colors
available upon request.



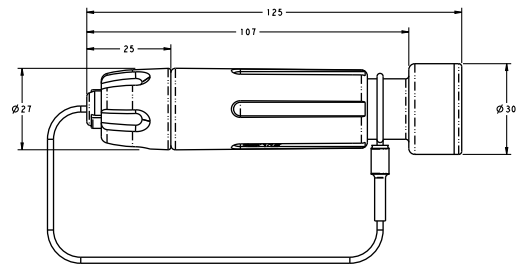
PRO BEAM Jr. Cable Connector, Plug



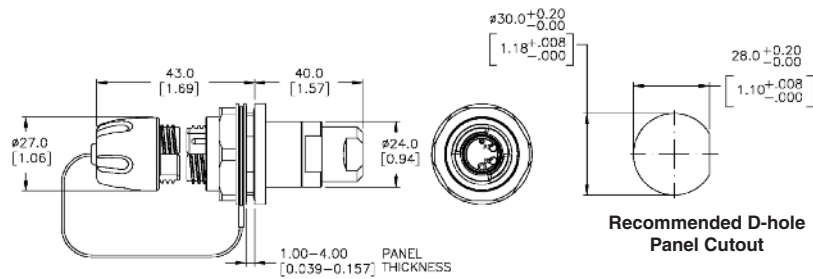
PRO BEAM Jr. Square Flange Mount Bulkhead Connector



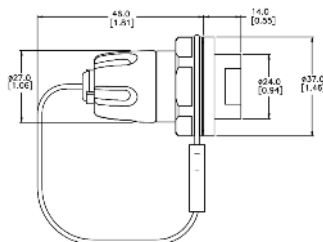
PRO BEAM Jr., Low Profile,
Square Flange Mount Bulkhead Connector



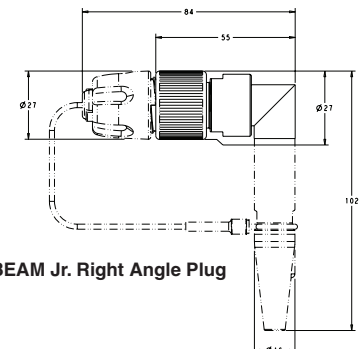
PRO BEAM Jr.,
Loopback Plug Connector



PRO BEAM Jr. D-Hole Standard Bulkhead Connector without Boot



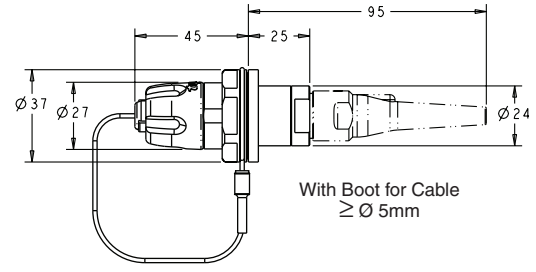
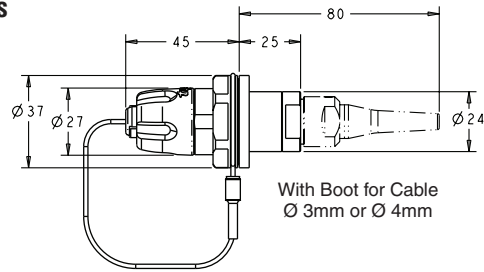
PRO BEAM Jr. Low Profile D-Hole Bulkhead Connector



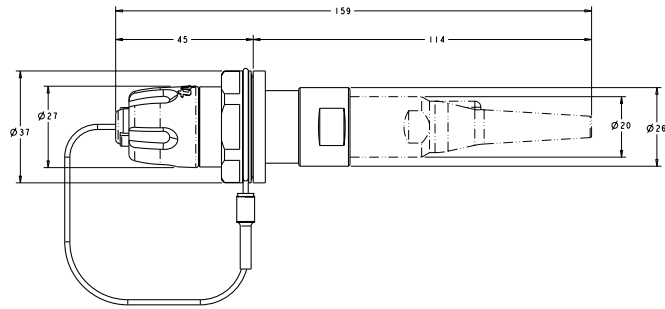
PRO BEAM Jr. Right Angle Plug

Expanded Beam Products (Continued)

PRO BEAM Jr. Connectors



PRO BEAM Jr. Standard Bulkhead Connector, with Boot



PRO BEAM Jr. Sealed Bulkhead Connector

Expanded Beam Products (Continued)

PRO BEAM Jr. Connectors

(Continued)

Connector Assembly

1 Shell Kit
1 Insert Kit
1 Cable Adapter Kit*
X Ferrule Kits (X = No. of optical channels)

Part Numbers listed are
Shell alloy = aluminum
Plating = hard anodized.
Consult TE Connectivity
for other plating/material
options such as non-cadmium
olive drab or RoHS-compliant
black Zn/Ni.

PRO BEAM Jr. Connector Shell Kits

Description	Alloy		
	Hard Anodized Aluminum Part Number	NiAlBz Part Number	Black Zinc Aluminum Part Number
PRO BEAM Jr. Plug w/EPDM rubber	1918937-1	1918937-2	—
PRO BEAM Jr. Right-Angle Plug Kit	1985915-1	—	—
PRO BEAM Jr. D-Hole Low Profile, Buffered Fiber Bulkhead	1693741-1	1693741-2	1754445-3
PRO BEAM Jr. D-Hole Low Profile, Simplex Cable Bulkhead	6828413-1	—	6828413-2
PRO BEAM Jr. D-Hole Standard Bulkhead	1918939-1	1918939-2	1918941-2
PRO BEAM Jr. D-Hole Sealed Bulkhead	1918940-1	1918940-2	1918940-4
PRO BEAM Jr. Square Flange Low Profile Buffered Fiber Bulkhead	1754439-1	1754439-2	1754447-3
PRO BEAM Jr. Square Flange Standard Bulkhead	1918943-1	1918943-2	—

PRO BEAM Jr. Loopback Plug Assembly

Description	Part Number
4 x 850 / 1300nm Multimode, 62.5/125 µm fiber	1516506-1
4 x 850 / 1300nm Multimode, OM3 50/125 µm fiber	1516506-2
4 x 1310nm Singlemode	1516506-3
4 x 1550nm Singlemode	1516506-4

PRO BEAM Jr. Insert Kits

Description	Part Number
2 x 850 / 1300nm Multimode	1515743-1
2 x 1310nm Singlemode	1515739-1
2 x 1550nm Singlemode	1516040-1
4 x 850 / 1300nm Multimode	1515747-1
4 x 1310nm Singlemode	1515740-1
4 x 1550nm Singlemode	1516041-1

Ferrule Kits

Fiber Hole Size	Mode	PRO BEAM	Part Number
125 m	SM	Jr.	1588908-2
126 m	SM	Jr.	1588908-1
126 m	MM	Jr.	1588700-1

PRO BEAM Jr. Connector Plug & Sealed Bulkhead Cable Adapter Kits

Cable Dia. Max.	Aluminum Plug Part Number	NiAlBz Plug Part Number	Aluminum Sealed Bulkhead Part Number	NiAlBz Sealed Bulkhead Part Number	Black Zn-Ni Part Number
3.2	1918931-1	1918931-9	1918932-1	1918932-9	2-1918932-5
3.6	1918931-2	1-1918931-0	1918932-2	1-1918932-0	2-1918932-6
4.2	1918931-3	1-1918931-1	1918932-3	1-1918932-1	2-1918932-7
5.2	1918931-4	1-1918931-2	1918932-4	1-1918932-2	2-1918932-8
5.7	1918931-5	1-1918931-3	1918932-5	1-1918932-3	2-1918932-9
6.2	1918931-6	1-1918931-4	1918932-6	1-1918932-4	3-1918932-0
6.7	1918931-7	1-1918931-5	1918932-7	1-1918932-5	3-1918932-1
7.5 (breakout cable only)	1918931-8	1-1918931-6	1918932-8	1-1918932-6	3-1918932-2

PRO BEAM Jr. Connector Standard Bulkhead Cable Adapter Kits*

Cable Dia. Max.	Aluminum with Boot Part Number	NiAlBz with Boot Part Number	Black Zn-Ni Part Number	Aluminum without Boot Part Number	NiAlBz without Boot Part Number	Black Zn-Ni Part Number
3.2	1918933-1	1918933-9	2-1918933-5	1918934-1	1918934-8	2-1918934-2
4.1	1918933-2	1-1918933-0	2-1918933-6	1918934-2	1918934-9	2-1918934-3
5.1	1918933-3	1-1918933-1	2-1918933-7	1918934-3	1-1918934-0	2-1918934-4
5.5	1918933-4	1-1918933-2	2-1918933-8	1918934-4	1-1918934-1	2-1918934-5
6.0	1918933-5	1-1918933-3	2-1918933-9	1918934-5	1-1918934-2	2-1918934-6
4 x 3.00	1918933-8	1-1918933-6	3-1918933-2	1918934-7	1-1918934-4	2-1918934-8

* Standard Cable Adapter. Not applicable for Low Profile.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Technical Documents

Product Specification

108-2177 Design Objectives

Application Specification

114-13099

Instruction Sheets

408-10250 Grounding and Standard D-Hole Bulkhead

408-10222 Plug

408-10249 Sealed D-Hole Bulkhead

408-8834 Low Profile Square Flange Bulkhead

408-8840 Low Profile D-Hole Bulkhead

408-10251 Standard Square Flange Bulkhead

408-10018 Low Profile D-Hole Simplex Cable Bulkhead

408-10252 7.5 Cable Adapter

http://www.te.com/documents

Expanded Beam Products (Continued)

PRO BEAM Jr. Connectors

(Continued)

Spare Parts & Tools

Technical Documents

Product Specifications

408-8857 Curing Fixtures for
PRO BEAM Jr. and Sr.
Connectors

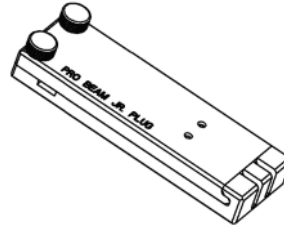
408-8828 Cleaning Procedure for
EB C/A's

Tooling Specifications

408-8795 Crimp Tool with Die Set for
PRO BEAM Jr. and Sr.
Connectors

408-10022 Die Assembly for Mini and
Jr. Circular Crimps

<http://www.te.com/documents>



Curing Fixtures

Connector	Part Number
PRO BEAM Jr. Cable Plug (having cable with KEVLAR strength member fiber)	1693797-1
PRO BEAM Jr. Sealed D-Hole Bulkhead	
PRO BEAM Jr. Standard D-Hole and Square Flange Bulkhead	1693800-1
PRO BEAM Jr. Low Profile Buffered Fiber Bulkhead	1754122-1

Instruction Sheet 408-8857. Available at www.te.com

Cable Crimp Components

Description	Part Number
Crimp Sleeve (use with all PRO BEAM Jr. Connector Crimp Support sizes)	1918497-1
3.2 mm Crimp Support	1918498-1
4.2 mm Crimp Support	1918498-2
5.2 mm Crimp Support	1918498-3
5.7 mm Crimp Support	1918498-4
6.2 mm Crimp Support	1918498-5
6.7 mm Crimp Support	1918498-6
Square Crimp Support for (4) 3 mm Cables	1985319-1

Ferrule Kits

Fiber Hole Size	Mode	PRO BEAM	Part Number
125 μ m	SM	Jr.	1588908-2
126 μ m	SM	Jr.	1588908-1
126 μ m	MM	Jr.	1588700-1

Protective Caps

Description	PRO BEAM	Part Number
Standard cap, for D-Hole Bulkhead	Jr.	1515868-1
Standard cap, for Flange Mount Bulkhead	Jr.	1515787-2
Standard cap, for connector plug	Jr.	1515867-1

Termination Kit

Part Number
1828650-1

KEVLAR is a trademark of E. I. du Pont
de Nemours and Company.

Note: All part numbers are RoHS compliant.

Expanded Beam Products (Continued)

PRO BEAM Sr. Connectors

Performance Specifications

Optical, Multimode Version

Insertion Loss, Typical* —
0.7 dB @ 1300 nm and 850 nm dual wavelength

Optical, Singlemode Version

Insertion Loss, Typical* —
0.8 dB @ 1310 nm or 1550 nm optimized wavelength

Return Loss** — > 34 dB
@ 1310 nm or 1550 nm optimized wavelength

*When tested with reference quality launch/receive cable assemblies

**RL Tested Open Ended

Mechanical

Vibration, Sinusoidal —

10 - 500 Hz, 3 directions;
0.75 mm amplitude @ 10g acceleration

Bump — 4,000 Bumps, 6 directions,
@ 50g acceleration

Free Fall — 500 falls on concrete;
Severity 1.2 m

Coupling Endurance —
3,000 couplings

Weight —

Plug — 290 grams, typical

Chassis bulkhead — 150 grams, typical

Temperature

Operational Temperature —
-40°C/+85°C

Storage Temperature — -55°C/+85°C

Temperature, Cyclic — -55°C/+85°C

Humidity (Damp Heat) — 95% RH

Immersion

Water — 5 m depth (plug),
2 m (Bulkhead)

Material and Finish

Shell Alloy — Aluminum; or nickel
aluminum bronze (high saline environ-
ment)

Plating (For Aluminum Shells Only) —
clear hard anodized or black zinc - nickel
alloy (PRO BEAM Sr. bulkheads only)

Bulkhead Connector Panel Thicknesses

PRO BEAM Sr. D-Hole Connector —
6.5 mm max.

PRO BEAM Sr. Square Flange Connector — 8.5 mm max.

Technical Documents

Product Specifications

408-8799 Plug

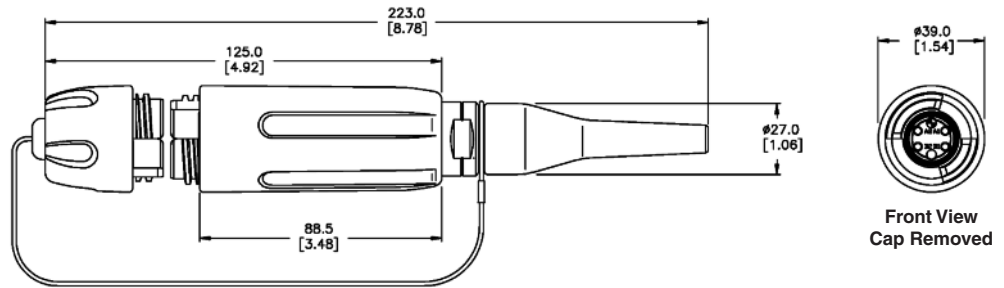
408-8800 D-Hole Bulkhead

408-8877 Square Flange Bulkhead

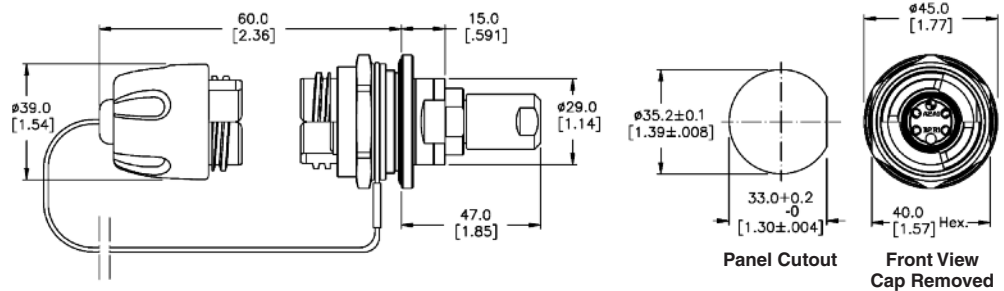
Application Specification

114-13122

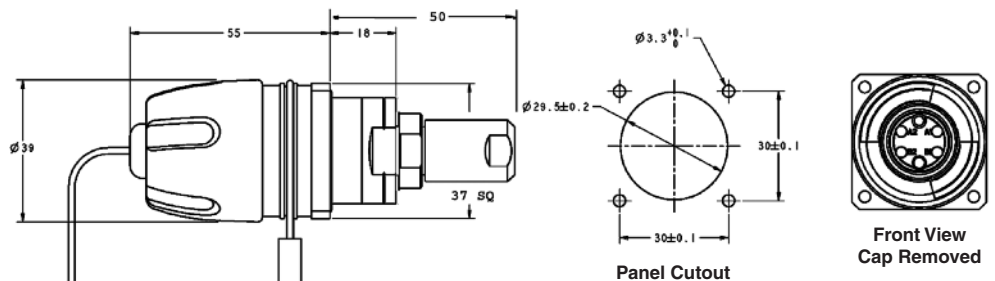
<http://www.te.com/documents>



PRO BEAM Sr. Cable Connector, Plug



PRO BEAM Sr. D-Hole Bulkhead Connector with Standard Cable Adapter



PRO BEAM Sr. Square Flange Mount Bulkhead Connector with Standard Cable Adapter

Standard color black for Polymer Grip Rings, Cap and Boots. Alternate colors available upon request.

Expanded Beam Products (Continued)

PRO BEAM Sr. Connectors

(Continued)

Connector Assembly

1 Shell Kit
1 Insert Kit
1 Cable Adapter Kit*
X Ferrule Kits (X = No.
of optical channels)

*Not applicable for Low Profile

Part numbers listed are
Shell alloy = aluminum
Plating = hard anodized.
Consult TE Connectivity
for other plating/material
options such as NiAlBz for
Naval applications, or other
plating options such as RoHS-
compliant black Zn-Ni.

**ASSEMBLY
CAPABILITIES**
TE Connectivity has
extensive Rugged Optic Harness
capabilities. Please consult
your local TE
Sales representative
for assistance.

Technical Documents

Product Specifications

408-8857 Curing Fixtures for
PRO BEAM Jr. and Sr.
Connectors
408-8828 Cleaning Procedure for
EB C/A's

Tooling Specifications

408-8795 Crimp Tool with Die Set for
PRO BEAM Jr. and Sr.
Connectors

<http://www.te.com/documents>

PRO BEAM Sr. Connector Shell Kits	Alloy	
	Aluminum Part Number	NiAlBz Part Number
PRO BEAM Sr. Plug w/EPDM rubber	1754842-1	1754842-2
PRO BEAM Sr. D-Hole Standard Bulkhead	1754843-1	1754843-2
PRO BEAM Sr. Square Flange Standard Bulkhead	1754844-1	1754844-2

PRO BEAM Sr. Insert Kits	Part Number
2 x 850 / 1300 nm Multimode	1693001-1
2 x 1310 nm Singlemode	1515734-2
4 x 850 / 1300 nm Multimode	1693001-2
4 x 1310 nm Singlemode	1515735-1
8 x 850/1300 nm Multimode	1516256-1
8 x 1310 nm Singlemode	1516258-1
8 x 1550 nm Singlemode	1516258-2

PRO BEAM Sr. Ferrule Kits

Fiber Hole Size	Mode	Insert Application	Part Number
125 µm	SM	2 & 4 Channel	1515941-1
126 µm	SM	2 & 4 Channel	1515941-2
126 µm	MM	2 & 4 Channel	1588801-1
125 µm	SM	8 Channel	1985635-1
126 µm	SM	8 Channel	1985635-2
126 µm	MM	8 Channel	1985107-1

PRO BEAM Sr. Connector Plug Adapter Kits

Cable Dia. (Max.)	Alloy	
	Aluminum Part Number	NiAlBz Part Number
5.10 .201	1515940-1	1515940-2
5.65 .222	1515940-3	1515940-4
6.20 .244	1515940-5	1515940-6
6.70 .264	1515940-7	1515940-8

PRO BEAM Sr. Connector Standard Bulkhead Cable Adapter Kits

Cable Dia. (Max.)	Style	Alloy	
		Aluminum Part Number	NiAlBz Part Number
5.20 .205	Standard Cable Adapter	1516229-3	1516229-7
5.70 .224	Standard Cable Adapter	1516229-2	1516229-6
Buffered Fiber	Low Profile Adapter	1516229-4	1516229-8
6.70 .264	Standard Cable Adapter	1-1516229-3	1-1516229-4
4 x 3 mm	Standard Cable Adapter	1516229-1	1-1516229-5

Note: All part numbers are RoHS compliant.

Expanded Beam Products (Continued)

38999 Style EB for Harsh Environments

Product Facts

- Available in shell size 11, housed on D38999 Series III style shells for harness applications
- Multiple options available for backshells. Consult your local TE Connectivity Sales Representative
- Shell polarizations A through E available upon request

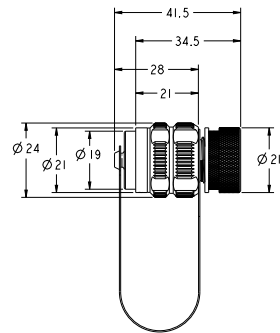
Standard Material and Finish

Shell Alloy — Aluminum

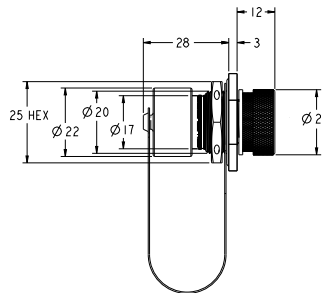
Plating — Nickel or green chromated zinc or RoHS-compliant black chromated zinc-nickel alloy

*Refer to customer drawing for dash number designation

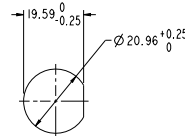
For part number details and plating options, contact your local TE Connectivity Sales Representative.



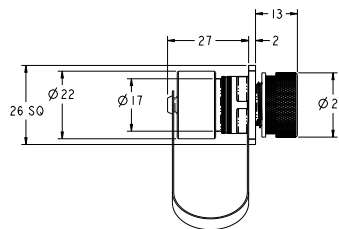
38999 Plug Shell Kit for mini EB



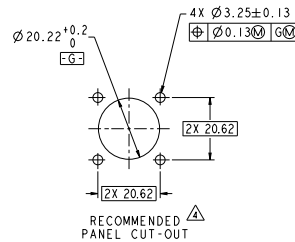
38999 Jam-Nut Receptacle Shell Kit for mini EB



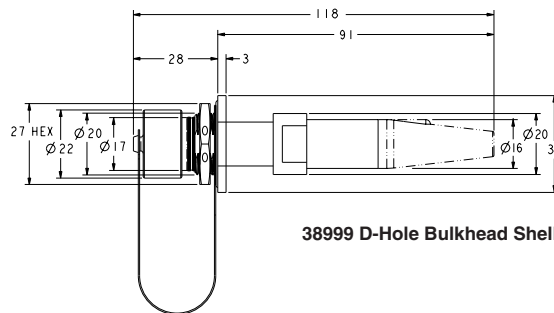
RECOMMENDED PANEL CUT-OUT



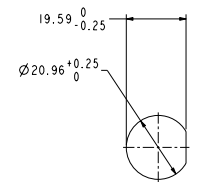
38999 Shell Kit Wall Mount Receptacle for mini EB



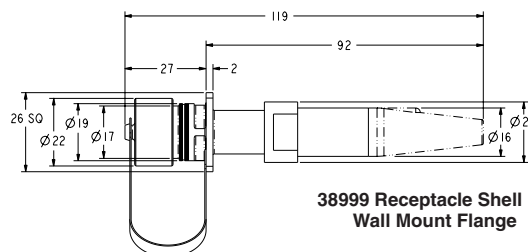
RECOMMENDED PANEL CUT-OUT



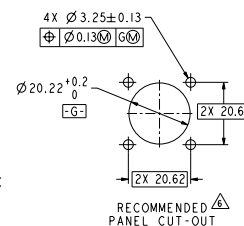
38999 D-Hole Bulkhead Shell Kit



RECOMMENDED PANEL CUT-OUT



38999 Receptacle Shell Kit Wall Mount Flange



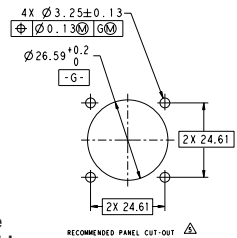
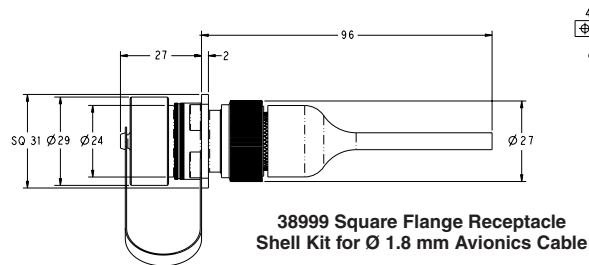
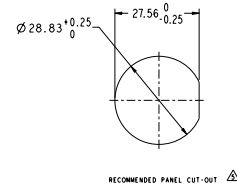
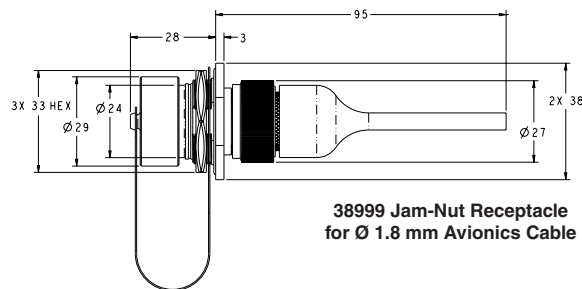
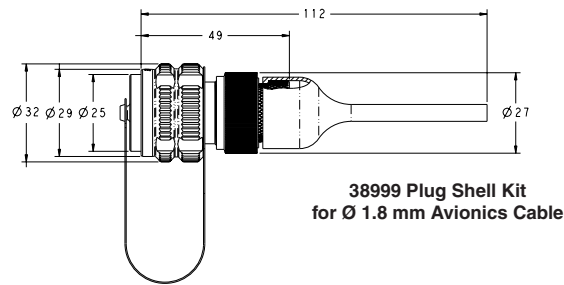
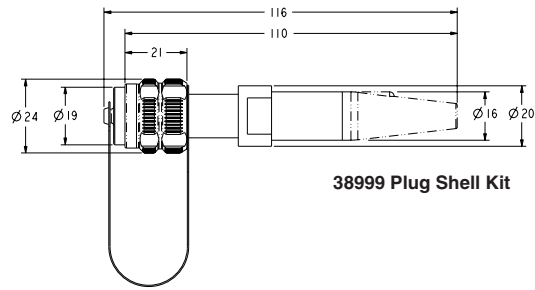
RECOMMENDED PANEL CUT-OUT

ASSEMBLY CAPABILITIES
TE Connectivity has extensive Rugged Optic Harness capabilities. Please consult your local TE Sales representative for assistance.

Note: All part numbers are RoHS compliant.

Expanded Beam Products (Continued)

38999-style EB for Harsh Environments (Continued)



Expanded Beam Products (Continued)

38999-style EB for Harsh Environments (Continued)

Size 11 Shield Kit

Use with:	Mini EB 38999 Connector Shell Kits (N-Key)								
	Ø1.8 mm Max Avionics Cable			MIL-Tactical Distribution Cable			Buffered Fiber Only		
Finish:	Electroless Ni Plate	OD Zn	Black Zn-Ni	Electroless Ni Plate	OD Zn	Black Zn-Ni	Electroless Ni Plate	OD Zn	Black Zn-Ni
Plug:	6754518-1	1754518-7 ♦	6754518-7	1985021-1	1985021-7 ♦	—	1918883-1	1918883-7 ♦	1-1918883-3
Jam-Nut Receptacle:	6754519-1	1754519-7 ♦	6754519-7	2064163-1	2064163-7 ♦	—	1918884-1	1918884-7 ♦	1-1918884-3
Flange-Mount Receptacle:	6754520-1	1754520-7 ♦	6754520-7	2064166-1	2064166-7 ♦	—	1918885-1	1918885-7 ♦	1-1918885-3

* Contact TE Connectivity for availability.

Size 15 Shield Kit

Use with:	2.2 mm Ø Max Avionics Cable		End Nut Backshell for Non-Jacketed Cable	
	Electroless Nickel Plate	Black Zinc Nickel	Electroless Nickel Plate	Black Zinc Nickel
Plug:	1516342-1	1516342-7	1516338-1	1516338-7
Jam-Nut Receptacle:	1516343-1	1516343-7	1516339-1	1516339-7
Flange-Mount Receptacle:	1516344-1	1516344-7	1516340-1	1516340-7

Cable Adapter Kits For 38999 Mini EB Mil-Tactical

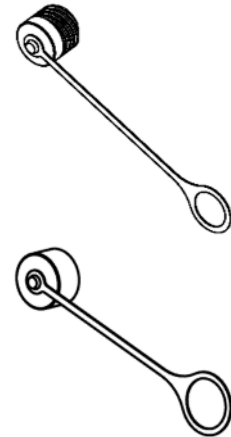
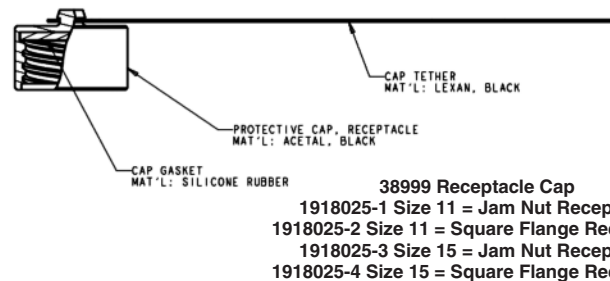
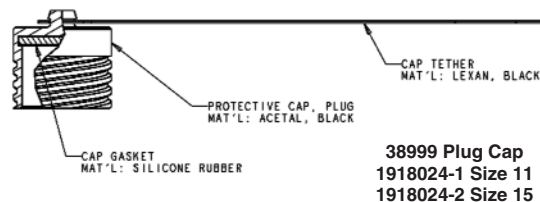
Cable Diameter	Part Number
5.1 mm	1516228-1
5.6 mm	1516228-2
6.2 mm	1516228-3

Insert Kits

Description	Part Number
Mini 2 x 850 / 1300 nm Dual Multimode	1374759-4
Mini 2 x 1310 nm Singlemode	1588129-2
Mini 2 x 1550 nm Singlemode	1588128-2
Mini 4 x 850 / 1300 nm Dual Multimode	1374759-2
Mini 4 x 1310 nm Singlemode	1588129-3
Mini 4 x 1550 nm Singlemode	1588128-3
8 x 850/1300 nm Multimode	1516256-1
8 x 1310 nm Singlemode	1516258-1
8 x 1550 nm Singlemode	1516258-2

Ferrule Kits

Fiber Hole Size	Mode	Insert Type	Part Number
125 µm	SM	Mini	1754700-1
126 µm	SM	Mini	1754700-2
126 µm	MM	Mini	1754699-1
125 µm	SM	8 Channel	1985635-1
126 µm	SM	8 Channel	1985635-2
126 µm	MM	8 Channel	1985107-1



Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Expanded Beam Products (Continued)

EB termini

Product Facts

- Durable non-contacting interface assures ease of use/cleaning
- Termini designed to replace existing M29504/4 and /5 physical contact termini that fits the Size 16 AWG cavity of a D38999 III connector
- MM and SM termini designs

EB termini are combination of inserts (containing the lens) and EB termini (for terminating the fiber).

