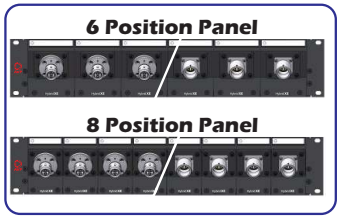
HybridXE Hybrid Fiber-Optic & Electrical Connector Break-Out Modules with LC or ST Singlemode Duplex Connector

For use in television broadcasting and video equipment such as camera head to camera control unit connections.
These hybrid Break-Out modules terminate two singlemode fiber-optic contacts, two low-voltage contacts and two auxiliary electrical contacts.
Lemo®: 600VAC, 10A
Neutrik: <50V, 6A

- Conform to SMPTE 304M-2003 Standard
- Feature Lemo® Connectors for Ultimate Reliability
- 6 Position and 8 Position Panel Configurations Available
- Individual Modules are removable from front of Panel
- Molex Mini-Fit Jr. Mating Kit included
- Blanking Cap included with LEMO connectors

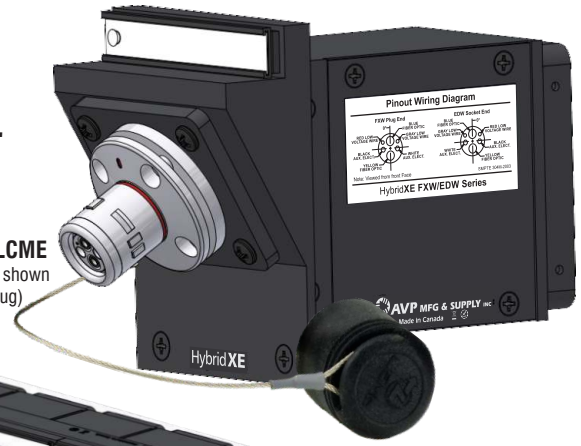
- Neutrik opticalCON®* Specifications on page 5



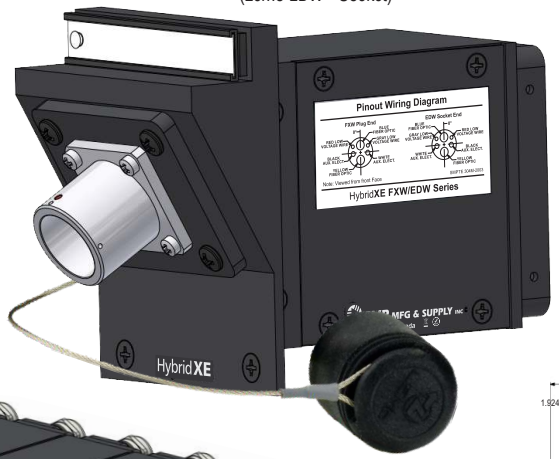
Lemo© SMPTE 304M Series Specifications

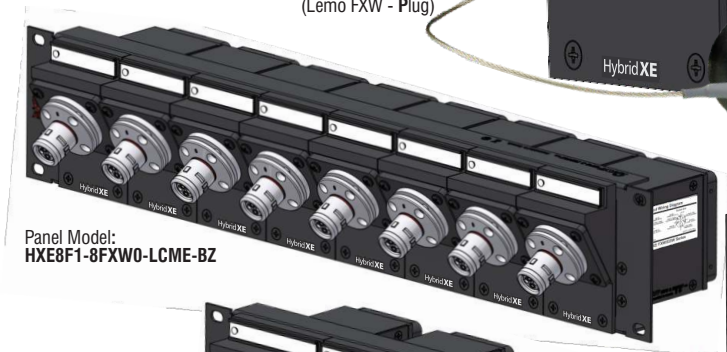
Optical	
Wavelength:	1100 nm – 1350 nm
Insertion Loss:	0.5 dB maximum
Return Loss:	Better than -45 dB
Electrical	
Auxiliary Elec. Contacts	
Voltage:	600VAC
Current:	10A
Low-Voltage Contacts:	
Voltage:	42VAC or 60VDC
Current:	1A
Environmental	
Temperature, Operating:	-20°C to +60°C
Temperature, Non-operating, storage:	-40°C to +85°C
Humidity:	<95% RH (at +40°C)
RoHS:	Compliant

HX6F1-FXW-LCME
for 6 Position Panel shown
(Lemo FXW - **P**lug)

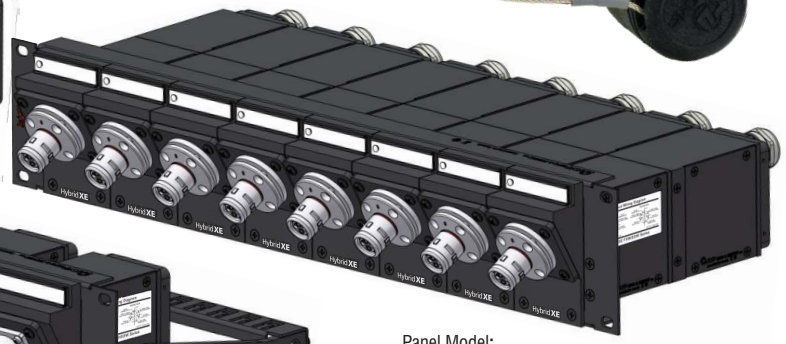


HX6F1-EDW-LCME
for 6 Position Panel shown
(Lemo EDW - **S**ocket)





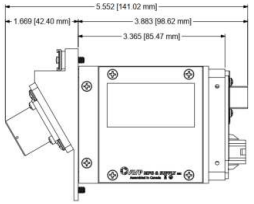
Panel Model:
HXE8F1-8FXW0-LCME-BZ



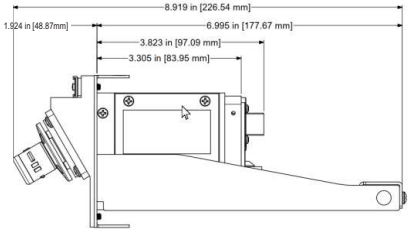
Panel Model:
HXE8F2-8FXW0-LCME-G5-BZ



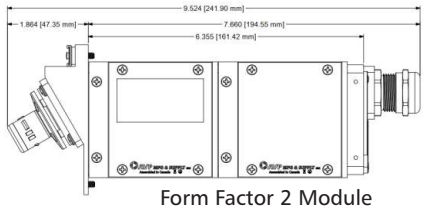
Panel Model:
HXE6F1-6EDW0-LCME-B47



Form Factor 1 Module



Form Factor 1 Module with Panel & Cable Bar

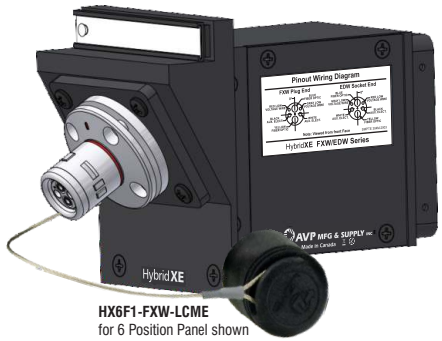


Form Factor 2 Module

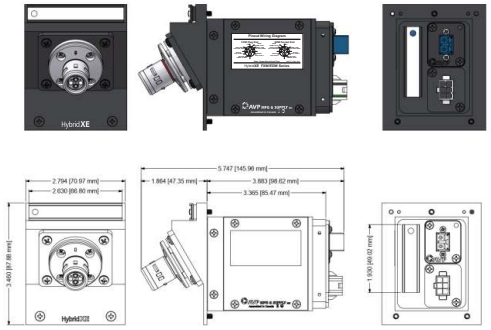
*Not compatible to SMPTE 304M standard. Suitable for indoor (studio) camera links considering specific conditions acc. to IEC 60664-1 like pollution degree 1, overvoltage category 1 and rated voltage.

HybridXE Form Factor 1 Modules

6 Position FXW



HX6F1-FXW-LCME
for 6 Position Panel shown

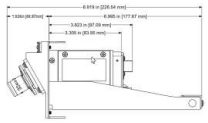




Loaded Panel Model:
HXE6S-6FXW0-LCME-BZ



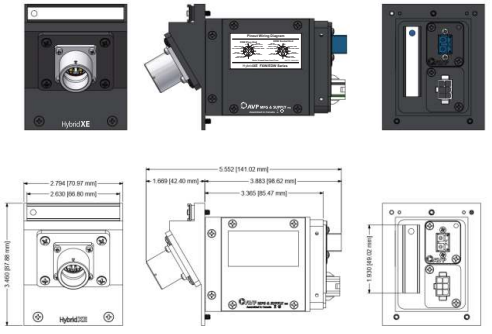
Loaded Panel Model:
HXE6S-6FXW0-LCME-B47



6 Position EDW



HX6F1-EDW-LCME
for 6 Position Panel shown

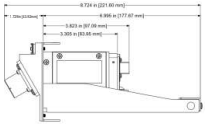




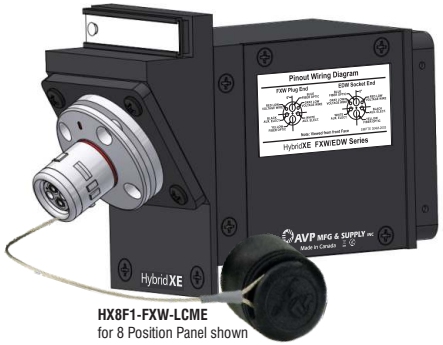
Loaded Panel MoZdel:
HXE6S-6EDW0-LCME-BZ



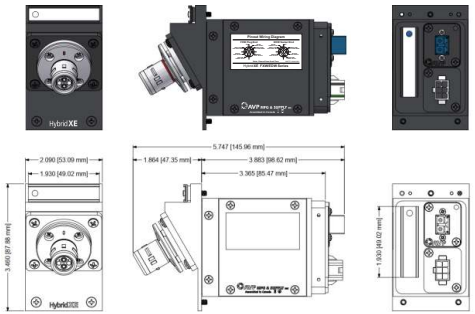
Loaded Panel Model:
HXE6S-6EDW0-LCME-B47



8 Position FXW



HX8F1-FXW-LCME
for 8 Position Panel shown

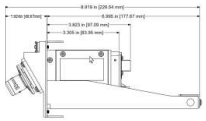




Loaded Panel Model:
HXE8F1-8FXW0-LCME-BZ



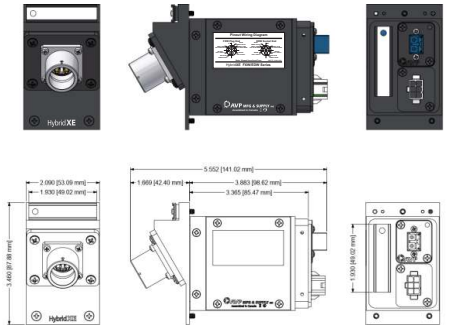
Loaded Panel Model:
HXE8F1-8FXW0-LCME-B47



8 Position EDW



HX8F1-EDW-LCME
for 8 Position Panel shown

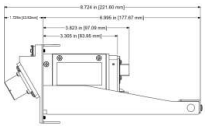




Loaded Panel Model:
HXE8F1-8EDW0-LCME-BZ



Loaded Panel Model:
HXE8F1-8EDW0-LCME-B47

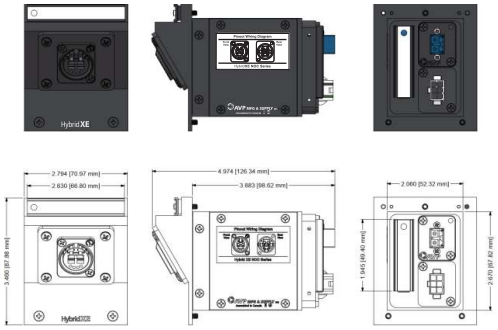


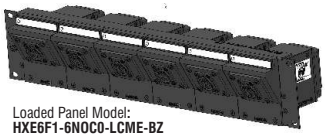
HybridXE Form Factor 1 Modules

6 Position NOC *Neutrik N02-4FDW-1-A opticalCON

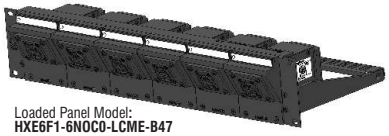


HX6F1-NOC-LCME*
for 6 Position Modual shown

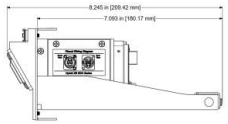




Loaded Panel Model:
HXE6F1-6NOC0-LCME-BZ



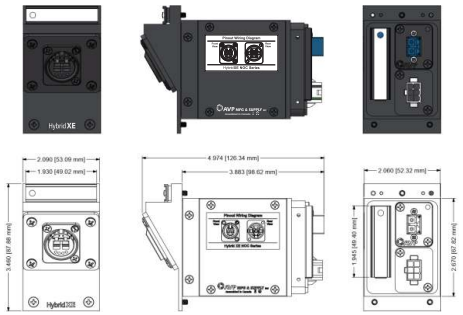
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HXE6F1-6NOC0-LCME-B47

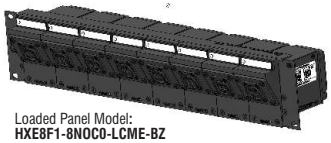


8 Position NOC *Neutrik N02-4FDW-1-A opticalCON



HX8F1-NOC-LCME*
for 8 Position Module shown

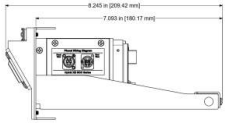




Loaded Panel Model:
HXE8F1-8NOC0-LCME-BZ



Loaded Panel Model:
HXE8F1-8NOC0-LCME-B47



*Not compatible to SMPTE 304M standard. Suitable for indoor (studio) camera links considering specific conditions acc. to IEC 60664-1 like pollution degree 1, overvoltage category 1 and rated voltage.

Form Factor 1 Loaded Panels

Model Number — **Panel Model Tree**

HXE | | F1 - | | - | | - | |

6 or 8 Position Panel

6	6 Position Panel
8	8 Position Panel

Number of Modules

1	1 Module	5	5 Modules
2	2 Modules	6	6 Modules
3	3 Modules	7	7 Modules
4	4 Modules	8	8 Modules

Type of Module*

EDW	LEMO EDW - SMPTE 304M Socket
FXW	LEMO FXW - SMPTE 304M Plug
NOC	Neutrik N02-4FDW-1-A opticalCON® connector with SMPTE cable shield to singlemode dual LC fiber

Cable Bar Option*

BZ	No cable bar
B47	Cable Bar, 6" [150mm]

Fiber / Electrical at rear

LCME	Singlemode Duplex LC, Molex Mini-Fit Jr.
STME	Singlemode Duplex ST, Molex Mini-Fit Jr.

Number of Blank Plates

0	No Blank Plates	5	5 Blank Plates
1	1 Blank Plate	6	6 Blank Plates
2	2 Blank Plates	7	7 Blank Plates
3	3 Blank Plates	8	8 Blank Plates
4	4 Blank Plates		

Form Factor 1 Modules


FXW


EDW


NOC

Model Number — **Module Model Tree**

HX | | F1 - | | - | |

Width for 6 or 8 Position Panel

6	For 6 Position Panel
8	For 8 Position Panel

Front Connector

FXW	LEMO FXW - Plug, SMPTE 304M Camera Connector
EDW	LEMO EDW - Socket, SMPTE 304M Camera Connector
NOC	Neutrik N02-4FDW-1-A opticalCON® Connector with SMPTE cable shield

Fiber / Electrical at rear

LCME	Singlemode Duplex LC, Molex Mini-Fit Jr.
STME	Singlemode Duplex ST, Molex Mini-Fit Jr.



AT-MJR-HCTJR


AT-MJR-EXT

Panel Frame & Blank Cover Plates

Positions	Model	AVP P/N	Description
6	HXE6PF-BZ	970243	**6** Position Hybrid**XE** Panel Frame, no cable bar
	HXE6PF-B47*	970244	**6** Position Hybrid**XE** Panel Frame, 6" [150mm] cable bar, *standard depth modules only
	HX6CP	970247	Blank Cover Plate for **6** Position Panel
8	HXE8PF-BZ	970245	**8** Position Hybrid**XE** Panel Frame, no cable bar
	HXE8PF-B47*	970246	**8** Position Hybrid**XE** Panel Frame, 6" [150mm] cable bar, *standard depth modules only
	HX8CP	970248	Blank Cover Plate for **8** Position Panel

Ordering Information - Hybrid Fiber-Optic Connector & Electrical Break-Out Panel Accessories

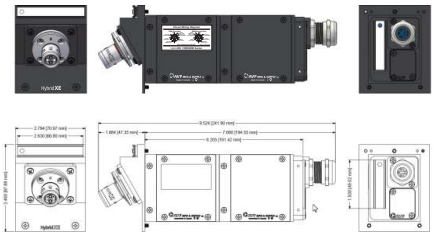
Model	AVP P/N	Description
AT-MJR-MCK	915990	Mating Connector Kit, consists of 1 electrical mating connector (39012065) and 5 socket terminal crimps (11030044) Molex Mini-Fit Jr.
AT-MJR-HCTJR	915991	Molex Premium Grade Hand Crimp Tool (638190901), male & female terminals, 24-18 AWG, for use with **AT-MJR-MCK** Mating Connector Kit
AT-MJR-EXT	915992	Molex Extraction Tool (11030044) remove pin & socket contacts Mini-Fit Jr.

HybridXE Form Factor 2 Modules

6 Position FXW

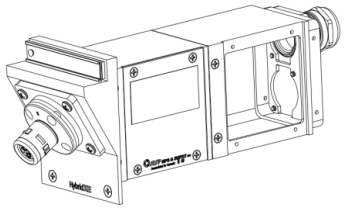


HX6F2-FXW-LCME
for 6 Position Panel shown





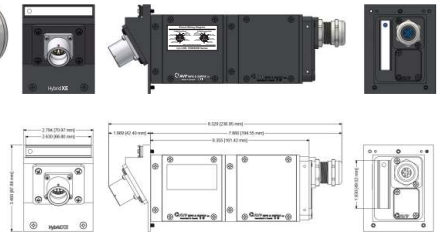
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HXE6F2-6FXW0-LCME-BZ



6 Position EDW

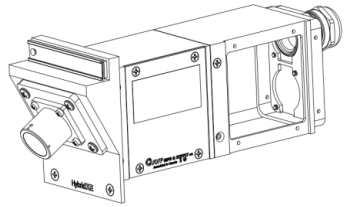


HX6F2-EDW-LCME
for 6 Position Panel shown





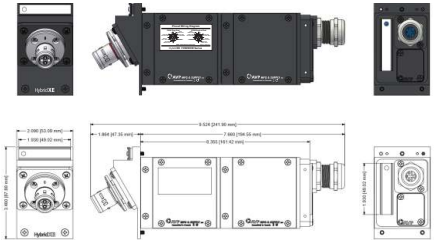
Loaded Panel Model:
HXE6F2-6EDW0-LCME-BZ



8 Position FXW

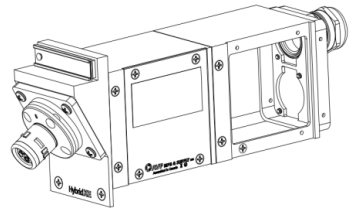


HX8F2-FXW-LCME
for 8 Position Panel shown





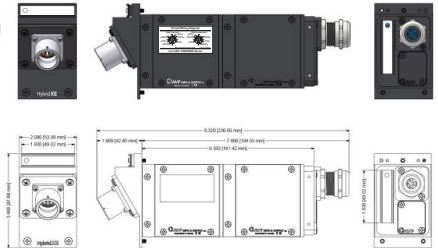
Loaded Panel Model:
HXE8F2-8FXW0-LCME-BZ



8 Position EDW

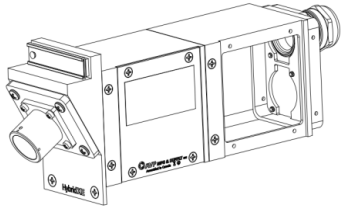


HX6F2-EDW-LCME
for 6 Position Panel shown



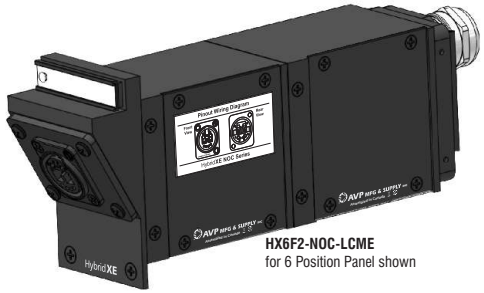


Loaded Panel Model:
HXE8F2-8EDW0-LCME-BZ

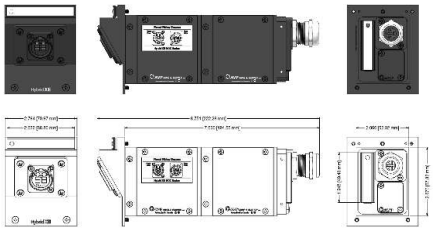


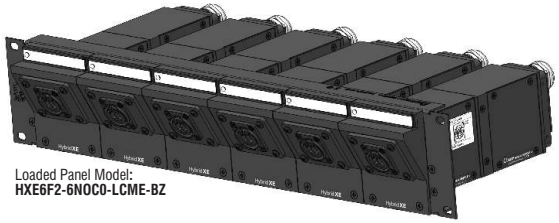
HybridXE Form Factor 2 Modules

6 Position NOC *Neutrik N02-4FDW-1-A opticalCON®

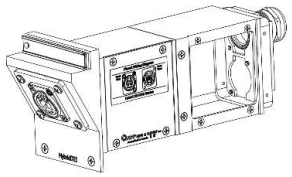


HX6F2-NOC-LCME
for 6 Position Panel shown





Loaded Panel Model:
HXE6F2-6NOC0-LCME-BZ

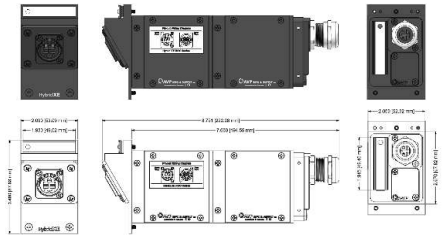


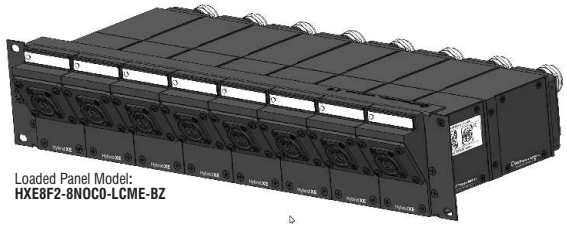
*Not compatible to SMPTE 304M standard. Suitable for indoor (studio) camera links considering specific conditions acc. to IEC 60664-1 like pollution degree 1, overvoltage category 1 and rated voltage.

8 Position NOC *Neutrik N02-4FDW-1-A opticalCON®

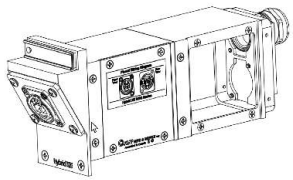


HX8F2-NOC-LCME
for 8 Position Panel shown





Loaded Panel Model:
HXE8F2-8NOC0-LCME-BZ



*Not compatible to SMPTE 304M standard. Suitable for indoor (studio) camera links considering specific conditions acc. to IEC 60664-1 like pollution degree 1, overvoltage category 1 and rated voltage.

Form Factor 2 Loaded Panels

Model Number — Panel Model Tree

HXE [ ] F2 - [ ] [ ] - [ ] - G5 - BZ

6 or 8 Position Panel
- 6 6 Position Panel
- 8 8 Position Panel

Number of Modules
- 1 1 Module
- 2 2 Modules
- 3 3 Modules
- 4 4 Modules
- 5 5 Modules
- 6 6 Modules
- 7 7 Modules
- 8 8 Modules

Type of Module*
- EDW LEMO EDW - SMPTE 304M Socket
- FXW LEMO FXW - SMPTE 304M Plug
- NOC Neutrik N02-4FDW-1-A opticalCON® connector with SMPTE cable shield to singlemode dual LC fiber

Number of Blank Plates
- 0 No Blank Plates
- 1 1 Blank Plate
- 2 2 Blank Plates
- 3 3 Blank Plates
- 4 4 Blank Plates
- 5 5 Blank Plates
- 6 6 Blank Plates
- 7 7 Blank Plates
- 8 8 Blank Plates

Cable Gland
- G5 5-12mm Cable Gland

Internal Fiber & Electrical Termination
- LCME Singlemode Duplex LC, Molex Mini-Fit Jr.
- STME Singlemode Duplex ST, Molex Mini-Fit Jr.

Form Factor 2 Modules


FXW


EDW


NOC

Model Number — Module Model Tree

HX [ ] F2 - [ ] - [ ] - G5

Width for 6 or 8 Position Panel
- 6 For 6 Position Panel
- 8 For 8 Position Panel

Front Connector
- FXW LEMO FXW - Plug, SMPTE 304M Camera Connector
- EDW LEMO EDW - Socket, SMPTE 304M Camera Connector
- NOC Neutrik N02-4FDW-1-A opticalCON® Connector with SMPTE cable shield

Cable Gland
- G5 5-12mm Cable Gland

Internal Fiber & Electrical Termination
- LCME Singlemode Duplex LC, Molex Mini-Fit Jr.
- STME Singlemode Duplex ST, Molex Mini-Fit Jr.

Panel Frame & Blank Cover Plates

Positions	Model	AVP P/N	Description
6	HXE6PF-BZ	970243	**6** Position Hybrid**XE** Panel Frame, no cable bar
	HXE6PF-B47*	970244	**6** Position Hybrid**XE** Panel Frame, 6" [150mm] cable bar, *standard depth modules only
	HX6CP	970247	Blank Cover Plate for **6** Position Panel
8	HXE8PF-BZ	970245	**8** Position Hybrid**XE** Panel Frame, no cable bar
	HXE8PF-B47*	970246	**8** Position Hybrid**XE** Panel Frame, 6" [150mm] cable bar, *standard depth modules only
	HX8CP	970248	Blank Cover Plate for **8** Position Panel

NO2-4FDW-1-A opticalCON® Specifications

Electrical	
Contact Resistance	< 7 mΩ
Dielectric Strength	1.5 kVdc
Insulation Resistance	> 2 GΩ (initial)
Rated Current per Contact	6 A
Rated Voltage	< 50 V (1)
Ground Contact	Faston 2.8 x 0.5 (soldering possible)
Mechanical	
Insertion Force	< 45 N
Withdrawal Force	< 45 N
Lifetime (typ.)	5000 mating cycles
Locking Force	1000 N
Locking Device	Push-Pull
Mounting Direction	Front mounting
Chassis Shape	D
Environmental	
Temperature Range	-40 °C to +75 °C
Protection Class	IP65 in mated condition in combination with SCDP-*
Optical	
Insertion Loss	< 0.4 dB / connection
Optical Connector	LC-Duplex Feedthru