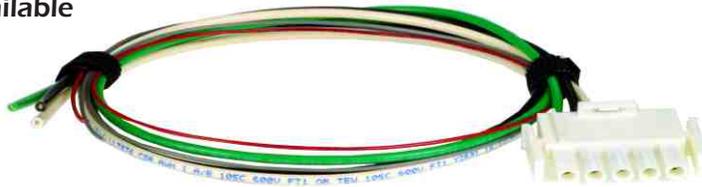


Hybrid Electrical & Fiber-Optic Connector Break-Out Modules

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 600VAC electrical contacts.

- Conform to SMPTE 304M-2003 Standard
- Feature Lemo® Connectors for Ultimate Reliability
- 6 Position and 8 Position Panel Configurations Available
- Include 60" [1.5m] Electrical Connector Mating Cable*
 - *Custom lengths available

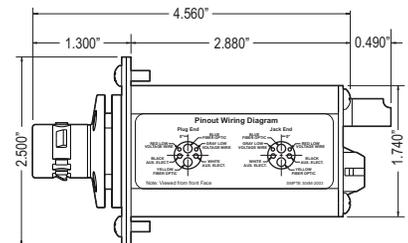


Modular Bulkhead SMPTE 304M Series Specifications

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



Ordering Information, 6 & 8 Position Panel Modules

Model	Description
SMPTE 304M-2003 Hybrid Electrical & Fiber-Optic Connector Break-Out Module, includes 60" [1.5m] Connector Mating Cable; for 6 Position panel	
MB6FM-LP-LC	Module, Lemo plug SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (round flange)
MB6FM-LS-LC	Module, Lemo socket SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (square flange)
SMPTE 304M-2003 Hybrid Electrical & Fiber-Optic Connector Break-Out Module, includes 60" [1.5m] Connector Mating Cable; for 8 Position panel	
MB8FM-LP-LC	Module, Lemo plug SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (round flange)
MB8FM-LS-LC	Module, Lemo socket SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (square flange)
AT-MBFM-MCK	Mating Connector Kit, includes electrical mating connector and 5 crimp pins
AT-MBFM-HCT1	Heavy Duty Hand Crimp Tool, for use with AT-MBFM-MCK Mating Connector Kit
AT-MBFM-HCT2	Standard Hand Crimp Tool, for use with AT-MBFM-MCK Mating Connector Kit

*Also available terminated to SC, ST and FC fiber-optic receptacles. Replace **-LC** in Model Name with **-SC**, **-ST** or **-FC**.
 *Add **-WZ** to end of model name to receive module with only **AT-MBFM-MCK** (electrical mating connector and 5 crimp pins)

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Ordering Information, 6 & 8 Position Panels

Ordering Information, 6 Position 2RU Modular Bulkhead Series Panels	
Model	Description
6 Position Standard, 30° & Switchboard Style Modular Bulkhead	
WK-M3B106E2-Z	30 degree, 2RU, 1x6, Modular Bulkhead panel, empty
WK-MSB106E2-Z	Standard (non angled), 2RU, 1x6, Modular Bulkhead panel, empty
HD-BAR-3	Heavy-Duty Cable Bar
Add -BAR	to model number for optional installed HD-BAR-3, Heavy-Duty Cable Bar
WK-M3B106E2-Z-180	Recessed panel for switchboard style patchcord retainer system; 2RU, 1x6, Modular Bulkhead panel, empty
MBCCH	Camera Cable Hanger support panel for the switchboard style patchcord retainer system
MBCP	Cover Plate, blank, covers one unused position, hardware

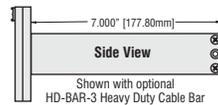
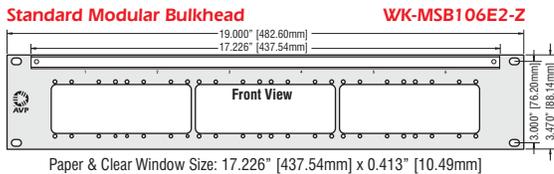


AT-MBFM-HCT1
Heavy Duty Hand Crimp Tool,
for use with **AT-MBFM-MCK**
Mating Connector Kit

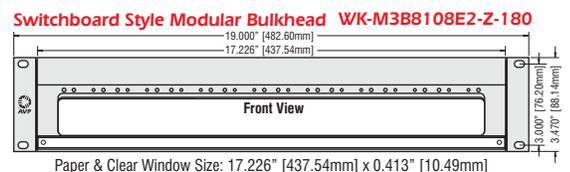
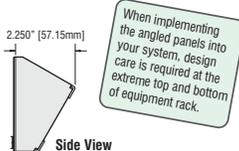
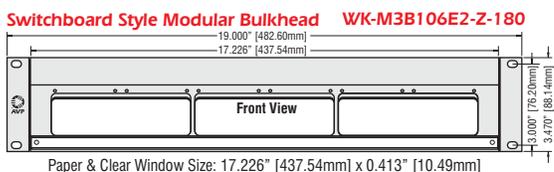
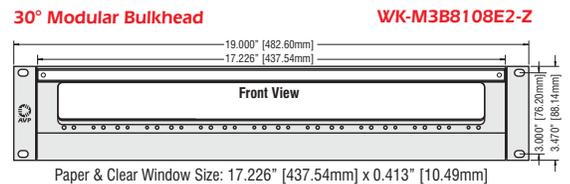
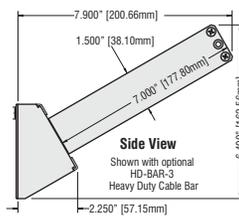
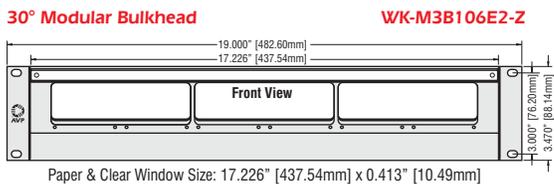
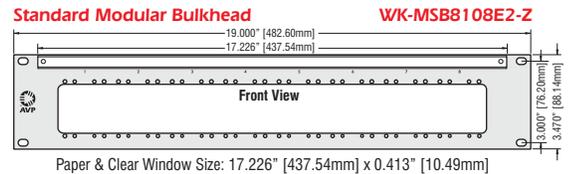
Ordering Information, 8 Position 2RU Modular Bulkhead Series Panels	
Model	Description
8 Position Standard, 30° & Switchboard Style Modular Bulkhead	
WK-M3B8108E2-Z	30 degree, 2RU, 1x8, Modular Bulkhead panel, empty
WK-MSB8108E2-Z	Standard (non angled), 2RU, 1x8, Modular Bulkhead panel, empty
HD-BAR-3	Heavy-Duty Cable Bar
Add -BAR	to model number for optional installed HD-BAR-3, Heavy-Duty Cable Bar
WK-M3B8108E2-Z-180	Recessed panel for switchboard style patchcord retainer system; 2RU, 1x8, Modular Bulkhead panel, empty
MBCCH	Camera Cable Hanger support panel for the switchboard style patchcord retainer system
MB8CP	Cover Plate, blank, covers one unused 8 position, hardware

AT-MBFM-HCT2
Standard Hand Crimp Tool,
for use with **AT-MBFM-MCK**
Mating Connector Kit

6 Position Panel & Designation Dimensions



8 Position Panel & Designation Dimensions



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