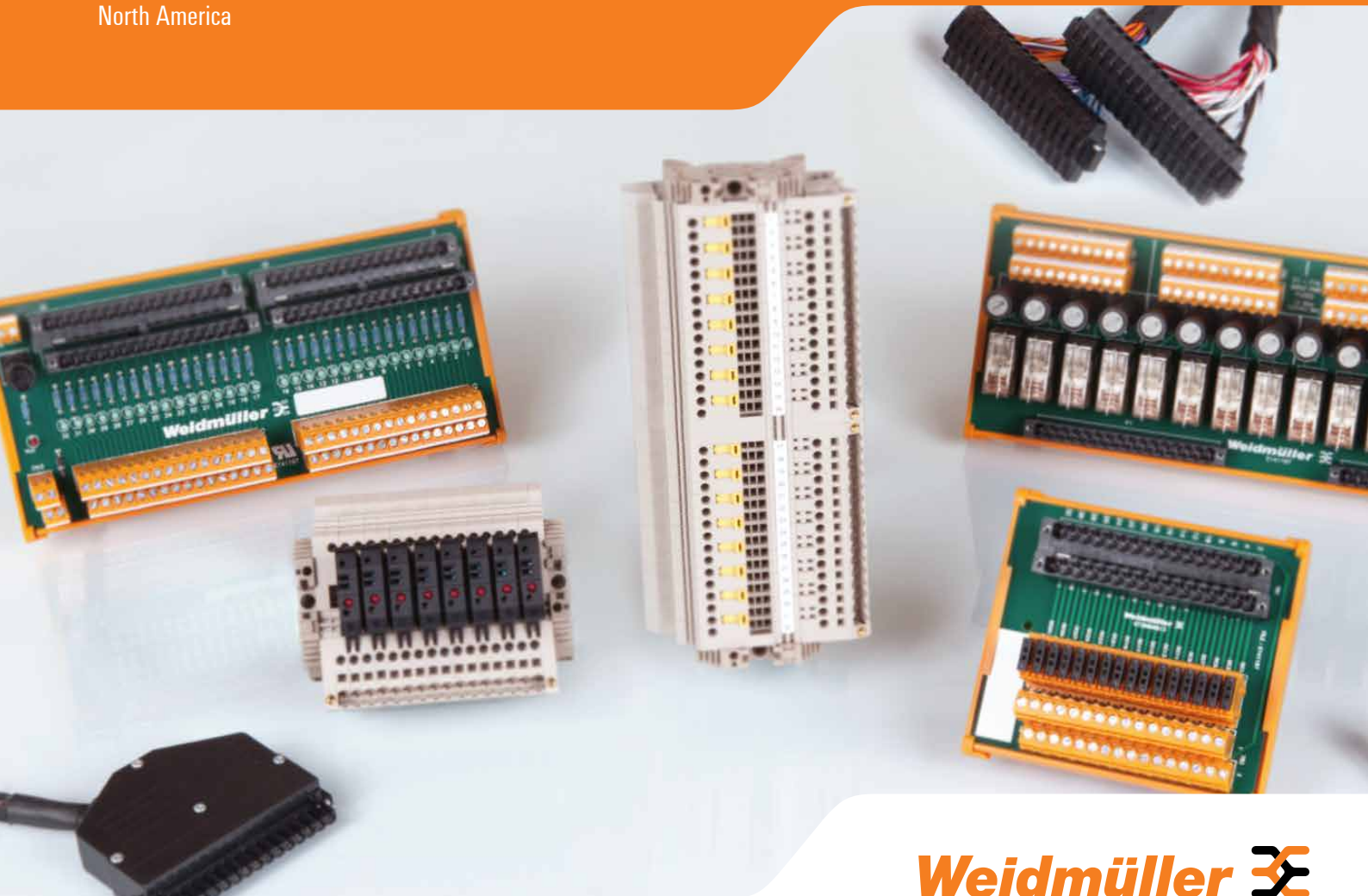


# Marshalling Solutions Catalog

North America



**Weidmüller** 

# Weidmuller Catalogs at a Glance

## Catalog 1: Modular Terminal Blocks

- P-Series (Push-in)
- I-Series (IDC)
- Power Distribution Blocks and Fuse Blocks
- Stud Style (Screw clamp)
- Z-Series (Tension clamp)
- W-Series (Screw clamp)
- Multi-function Blocks

## Catalog 2: PCB Terminals and Connectors

- Space Saving Technologies
- Wide Variety of Clamping Technologies
- Pitches Ranging from 3.50 mm to 15.00 mm
- Orientations Ranging from 90° to 270°

## Catalog 3: RockStar® – Heavy Duty Connectors

- Inserts
- Modular System
- Housings IP65 and IP68
- Cable Glands

## Catalog 4.1: Analog Signal Conditioning

- Intrinsically Safe Conditioners
- Signal Converters and Monitoring Devices
- Indicators and Configurable Displays
- Fieldbus Distribution Boxes

## Catalog 4.2: Relays and Optocouplers

- Mechanical Relays
- Solid-State (Opto) Relays
- Power Solid-State Relays
- Multifunction Relays and Timers

## Catalog 4.3: Power Delivery

- Power Supplies
- UPS Control Units
- Battery Back Up Units

## Catalog 4.4: Surge Protection

- Surge Protection for Low-Voltage
- Surge Protection for Instrumentation and Control
- Surge Protection for Data Interfaces
- Surge Protection for Photovoltaic Systems

## Catalog 5: Enclosures and Cable Glands

- Enclosures
- Cable Glands
- Cabtite (Cable Entry System)

## Catalog 6: Tools

- Cutting
- Stripping
- Crimping
- Screwdrivers
- Automatic Machines
- Ferrules

## Catalog 7: Marking Systems

- Terminal Markers
- Wire and Cable Markers
- Device and Equipment Markers
- Printing Systems and Software

## Catalog 8: Sensor Actuator Interface

- SAI Passive Blocks
- SAI Universal
- SAI ASI
- Cables and Connectors

## Catalog 9: Industrial Ethernet

- Unmanaged Switches
- Managed Switches
- Routers
- Media Converters
- SteadyTEC®
- RJ45 Connectors
- Fiber Optic Connectors
- Accessories

## Catalog 10: Short Form Catalog

- Terminal Blocks
- Enclosures and Cable Glands
- Professional Tools
- Heavy Duty Connectors
- Power Supplies and Breakers
- Relays and Optos
- Analog Signal Conditioning
- Wireless and Ethernet

## Catalog 11: Circuit and Surge Protection

- Surge Protection for Low Voltage
- Surge Protection for Instrumentation and Control
- Circuit Breakers and Protectors
- DIN-mountable AC Receptacles (DRAC)

## Catalog 12: Wireless I/O and Ethernet Connectivity

- Wireless I/O and Ethernet
- Wireless Gateways
- Wireless Transceivers
- Antennas and Accessories

## Catalog u-remote: Distributed I/O Solutions

- Field Bus Couplers
- Digital Input and Output Modules
- Analog Input and Output Modules
- Power Feed-in Modules
- Temperature Modules
- Functional Safety Modules

# Marshalling Solutions Catalog

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## Marshalling Solutions for Control Systems

DCS Marshalling System	3
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Cables - Cable Assembly	32
Terminal Blocks - Multi-functional Terminals	55

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# Find Your Marshalling Cable Solutions on [www.weidmuller.com](http://www.weidmuller.com)

Weidmuller has teamed with designers to provide a simple and easy solution to marshal DCS control systems. This complete marshalling system features two field wiring termination options with using either field termination assemblies or terminal blocks and engineered marshalling cables.

On Weidmuller.com, we provide you with these components and the information needed to design your complete marshalling system:

- **Engineered Marshalling Cables**

These special cables are designed and built to make connections to your DCS simple and easy. A handy cable designer utility, the Marshalling Cable Configurator, has been developed to make cable design, selection, and cost evaluation straightforward and fast (custom-built cables in 3 quick steps).

Marshalling Cable Drawings are also provided online. These detailed cable specification drawings include in wiring tables, wiring diagrams, bills of materials and engineered drawings are provided.

- **Field Termination Assemblies**

Featuring a range of field termination assemblies (FTAs) that include discrete and analog versions. Some versions will feature disconnects and test points. Downloadable drawings available for each FTA.

- **Terminal Block Kits**

Weidmuller offers a full line of terminal blocks with pluggable connectors. These terminal blocks have been custom kitted in eight configurations.

- **Marshalling Cable Specifications**

To start designing your complete marshalling system, visit: [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling)

The image displays two screenshots of the Weidmuller website's 'Marshalling Cable Solutions' section. The left screenshot shows the main product overview page with a navigation menu on the left and a central content area. The right screenshot shows a detailed view of the 'Marshalling Cable Configurator' interface, which includes a multi-step process (Step 1: Controller End Configuration, Step 2: Field End Configuration, Step 3: Wire Selections, Step 4: Review) and a form for entering project details and specifications.

**Website Overview (Left Screenshot):**

- Header:** Weidmüller logo, 'Marshalling Cable Solutions' title, 'Select Language' dropdown, 'Powered by Google Translate'.
- Site Navigation:** Marshalling Home, FTAs, Terminal Block Kits, Marshalling Cables, Marshalling Cable Specs, Marshalling Cable Drawings.
- Downloads:** PDF Brochure, PDF Datasheet.
- Main Content:**
  - Engineered Marshalling Cables:** These special cables are designed and built to make connections to your DCS simple and easy regardless of how the field cables are terminated. There are versions to connect to field terminations via a FTAs (clamshell version), pluggable terminal blocks (BLZ, 5.08 version) or individual blocks (Flying lead versions). [Marshalling Cable Configurator](#)
  - Field Termination Assemblies:** A range of field termination assemblies (FTAs) include discrete versions. Some versions will feature disconnects and test points.
  - Terminal Block Kits:** Weidmuller offers a full line of terminal blocks with pluggable terminal blocks have been custom kitted in eight configurations.
  - Marshalling Cable Specifications:** AlphaWire 22AWG, 8PR; AlphaWire 22AWG, 18PR; DataGuide 22AWG, 18PR; DataGuide 18AWG, 18PR; DataGuide 18AWG, 8PR.
  - Marshalling Cable Drawings:** Detailed cable specification drawings including in wiring table bills of materials and engineered drawings are provided. Also is the model number creation key for each marshalling cable.

**Configurator Interface (Right Screenshot):**

- Header:** Weidmüller logo, 'Marshalling Cable Solutions' title, 'Select Language' dropdown, 'Powered by Google Translate', 'Weidmuller.com', 'Marshalling Cable Solutions Home', 'Select country for pricing: United States', 'Cart: 0 Item(s)'.
- Progress:** Step 1: Controller End Configuration (Active), Step 2: Field End Configuration, Step 3: Wire Selections, Step 4: Review.
- Controller End Configuration:**
  - Project Information:** Project Name: [ ], Project: [ ], Description: [ ]
  - Controller End Specifications:** Connector: 32+4 in Clamshell; Wire Entry: Bottom Entry; Split Length: 0 meters (0.3 meters = 1 foot)
- Buttons:** Back, Next, Add to Cart.

# Marshalling Solutions

Weidmuller has created a complete system of field wiring termination and control system marshalling for Distributed Control Systems (DCS) or Programmable Logic Controller (PLC). This system is comprised of modular components or assemblies that allow for fast, error-free connection of field devices and controllers. These components include:

## Marshalling Cables

Available in lengths from 1.5 to 100 meters with a variety of end treatments, including:

- Ferruled flying leads
- Tinned flying leads
- Blunt flying leads
- Pluggable 5.08mm connectors (BLZ)
- Ring Lug leads
- Pluggable Clamshell connectors

All cables are marked at each point and contain drain connections on each cable end.



## Field Termination Assemblies (FTA)

A full line of interface modules is available which greatly reduces cabinet space, shortens the time to marshal and provides error-free connections.

Weidmuller FTAs include:

- 8, 16, 24, 48 channel versions
- Field wiring left or right versions
- Screw termination or tension clamp connections
- LED status indication
- Channel disconnects
- Versions with or without test points.



## Terminal Block Kits

For ease of use and flexibility, nothing beats terminal blocks. Weidmuller has created a selection of pre-bundled kits using the industry leading multi-function terminal block line, the WMF.

The kits include:

- 4, 8, 16, 32 channel versions
- Pluggable and screw connections
- Integrated ground (PE)
- Versions with or without test points
- Versions with or without disconnect

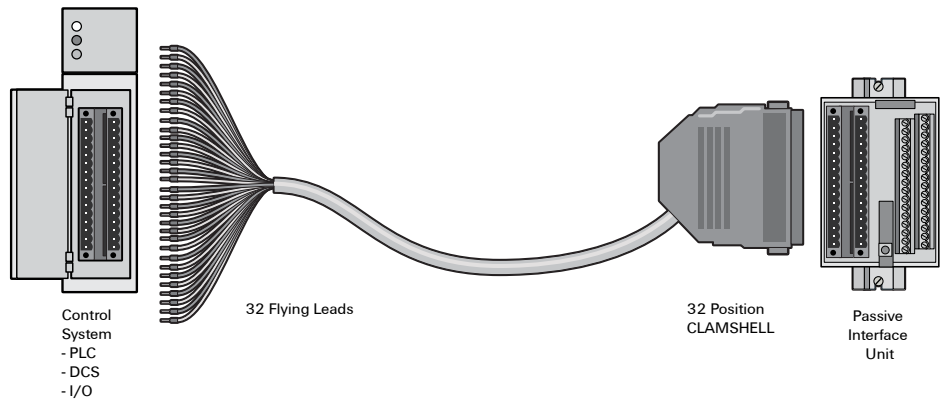
Using these modular components, almost any combination of discrete or analog signals can be marshalled or wired, regardless of the DCS or PLC used.



## Typical Application Configurations

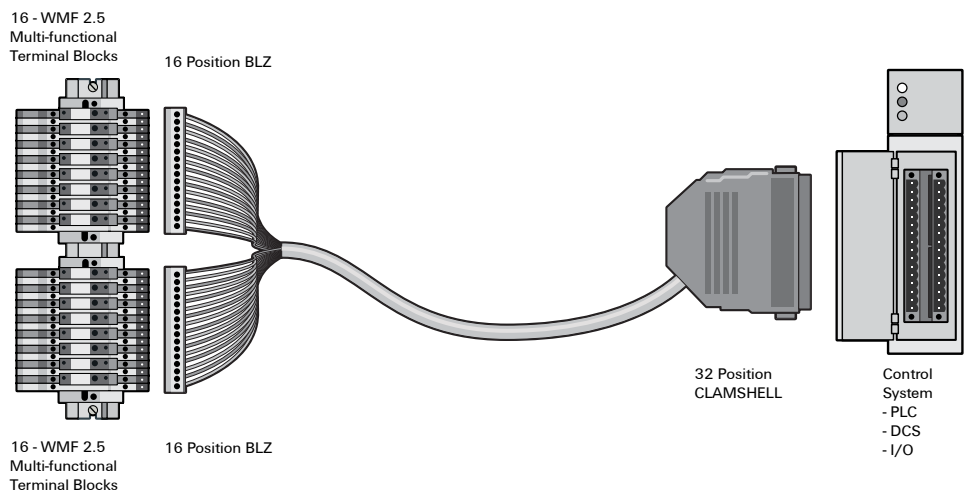
This marshalling solution has a 32-conductor cable with ferruled flying leads on one end for easy connection to the front panel of the controller. The field end has a 32 position Clamshell 5.08mm BLZ connector that can easily plug into a Weidmuller 32 pole interface board.

- Ferruled conductors
- Wiring flexibility
- Reduced termination time
- Color coded conductors



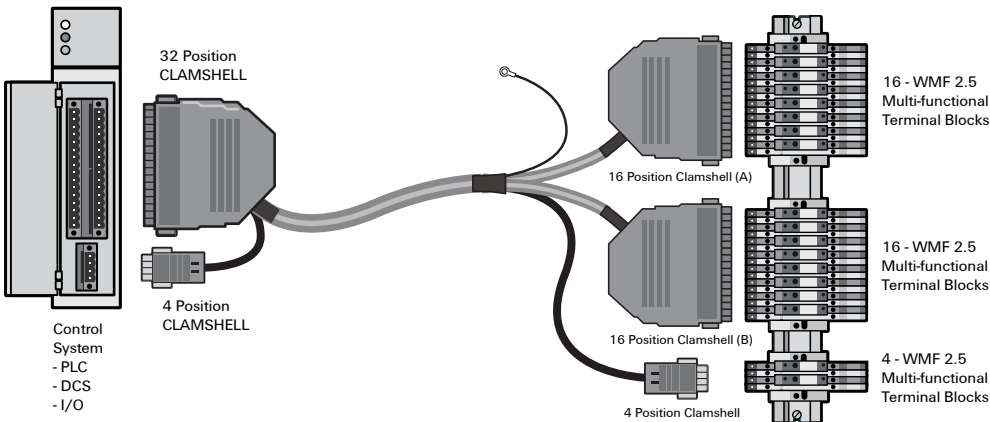
Marshalling is made easy with a 32 position Clamshell 5.08mm BLZ connector for connection on the DCS, along with two-16 pole BLZ 5.08 connectors on the field end for a strong connection to the Weidmuller WMF terminal block grouping.

- Reduced termination time
- Color coded conductors



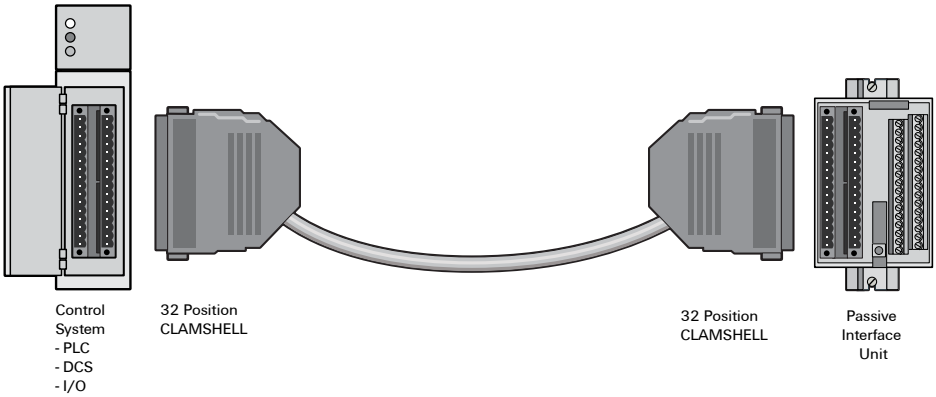
This cable is a 36 conductor cable with a 32 position Clamshell 5.08mm BLZ connector for easy connection on the DCS side along with a 4 pole break out for separated potential connections. On the field side we have two-16 pole Clamshell 5.08mm connectors and a 4-pole connector separate. These connectors provide connection to the Weidmuller WMF terminal block grouping.

- Reduced wiring time
- Four added positions for power distribution options
- Color coded conductors



The 32 to 32 Clamshell cable is a great way to quickly connect between an interface module and the Control system.

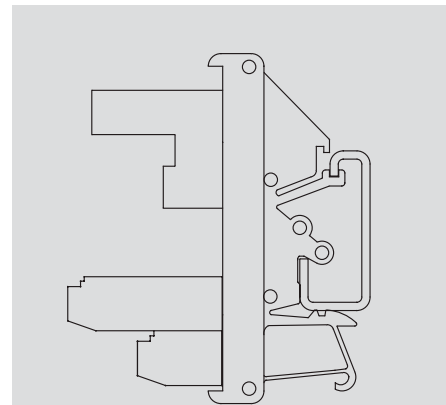
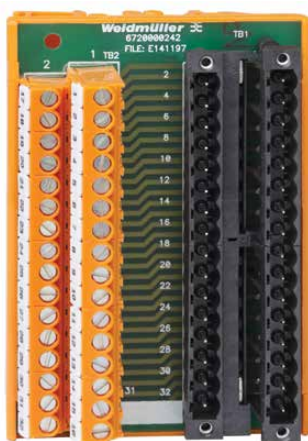
- Quick termination
- Reduced install time
- Keyed connectors to reduce potential wiring errors



**Field Termination Assembly**

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring terminations from LEFT side
- 16 Channels
- Feed through connections
- For analog/discrete signals
- 32 points
- Honeywell C300 IOTAs
  - CC-TAOX01/TAOX11/TAON01/TAON11: CC-TDIL01/TDIL11 (NEED 2); CC-TDI110/TDI120/TDI220/TDI230 (NEED 2); CC-TDOB01/TDOB11 (NEED 2)

**32 pole, feed through interface module (Field wiring left)**



**Technical data**

Connection data	
Process side	
Type	
Torque	
Control side	
Type	
Rated data	
Rated voltage	
Max. current per channel	
Operating temperature	
Storage temperature	
General Features	
LED status indicator per channel	
Disconnection per channel	
Voltage measuring test points	
Current measuring test points	
Fuse via channel	
Supply voltage LED status	
Power supply fuse	
Terminal wire size	
Insulation stripping length	
Approvals	
Standards	
Dimensions	
Length x width x height (inches / mm)	
Note	

Screw connection
LP2N terminal
4.4 in-lbs (0.5Nm)
Plug connection
CLAMSHELL SLD 32-Pole
250V
5A
0°C to +50°C
0°C to +50°C
No
No
No
No
No
No
AWG 26 ... 12
6mm
cURus (E141197)
4.0 x 2.8 x 2.6 / 101.6 x 71.1 x 66

**Ordering data**

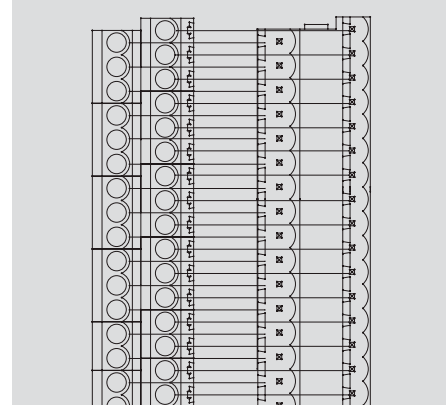
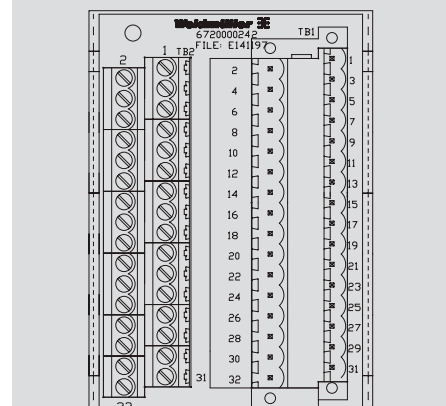
Screw connection	
Note	

Model	Qty	Part No.
32-pole, feed through interface module (Field wiring left)	1	672000242

**Accessories**

Optional Cable	
Note	

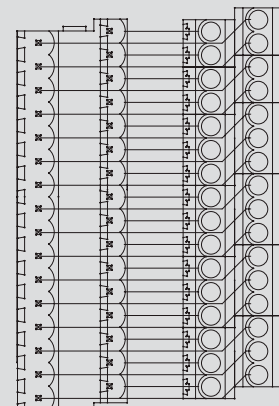
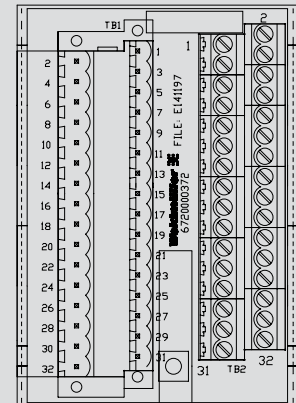
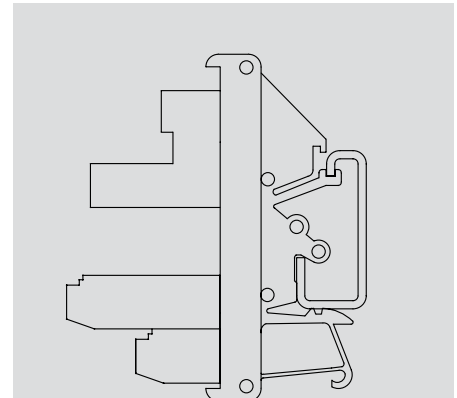
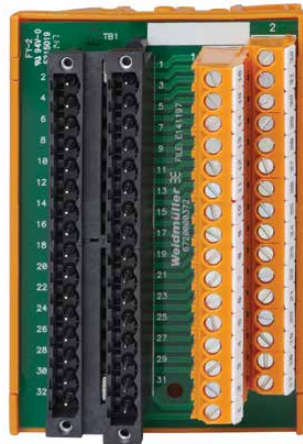
DWG No.	
a clamshell 32-pole to clamshell 32-pole	MS - C32x - C32x - Lxx - xxx
Required quantity based on Honeywell IOTA used	



### Field Termination Assembly

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring terminations from RIGHT side
- 16 Channels
- Feed through connections
- For analog/discrete signals
- 32 points
- Honeywell C300 IOTAs
  - CC-TAOX01/TAOX11/TAON01/TAON11: CC-TDIL01/TDIL11 (NEED 2): CC-TDI110/TDI120/TDI220/TDI230 (NEED 2): CC-TDOB01/TDOB11 (NEED 2)

### 32 pole, feed through interface module (Field wiring right)



### Technical data

Connection data	
Process side	
Type	
Torque	
Control side	
Type	
Rated data	
Rated voltage	
Max. current per channel	
Operating temperature	
Storage temperature	
General Features	
LED status indicator per channel	
Disconnection per channel	
Voltage measuring test points	
Current measuring test points	
Fuse via channel	
Supply voltage LED status	
Power supply fuse	
Terminal wire size	
Insulation stripping length	
Approvals	
Standards	
Dimensions	
Length x width x height (inches / mm)	
Note	

Screw connection	
LP2N terminal	
4.4. in-lbs (0.5Nm)	
Plug connection	
CLAMSHELL SLD 32-Pole	
250V	
5A	
0°C to +50°C	
0°C to +50°C	
No	
No	
No	
No	
No	
No	
AWG 26 ...12	
cURus (E141197)	
4.0 x 2.8 x 2.6 / 101.6 x 71.1 x 66	

### Ordering data

Screw connection	
Note	

Model	Qty	Part No.
32-pole, feed through interface module (Field wiring right)	1	6720000372

### Accessories

Optional Cable	
Note	

DWG No.	
a clamshell 32-pole to clamshell 32-pole	MS - C32x - C32x - Lxx - xxx
Required quantity based on Honeywell IOTA used	

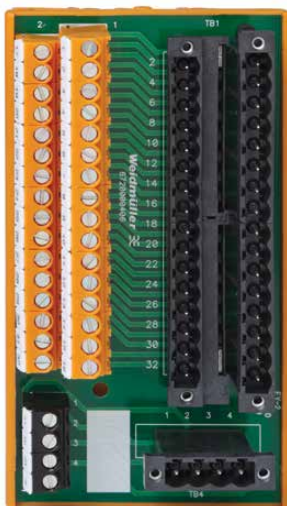




**Field Termination Assembly**

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring terminations from LEFT side
- 16 Channels
- Feed through connections
- For analog signals
- 32 points
- 4 additional terminations for power/return connections
- Honeywell C300 IOTAs
  - CC-TAIX01/TAIX11

**32 pole + 4, feed through interface module (Field wiring left)**



**Technical data**

<b>Connection data</b>	
Process side	
Type	
Torque	
Control side	
Type	
<b>Rated data</b>	
Rated voltage	
Max. current per channel	
Operating temperature	
Storage temperature	
<b>General Features</b>	
LED status indicator per channel	
Disconnection per channel	
Voltage measuring test points	
Current measuring test points	
Fuse via channel	
Supply voltage LED status	
Power supply fuse	
<b>Terminal wire size</b>	
Insulation stripping length	
<b>Approvals</b>	
Standards	
<b>Dimensions</b>	
Length x width x height (inches / mm)	
<b>Note</b>	

Screw connection	
LP2N terminal	
4.4. in-lbs (0.5Nm)	
Plug connection	
CLAMSHELL SLD 32-Pole	
250V	
5A	
0°C to +50°C	
0°C to +50°C	
No	
No	
No	
No	
No	
No	
AWG 26 ... 12	
6mm	
cURus (E141197)	
5.1 x 2.8 x 2.6 / 129.5 x 71.1 x 66	

**Ordering data**

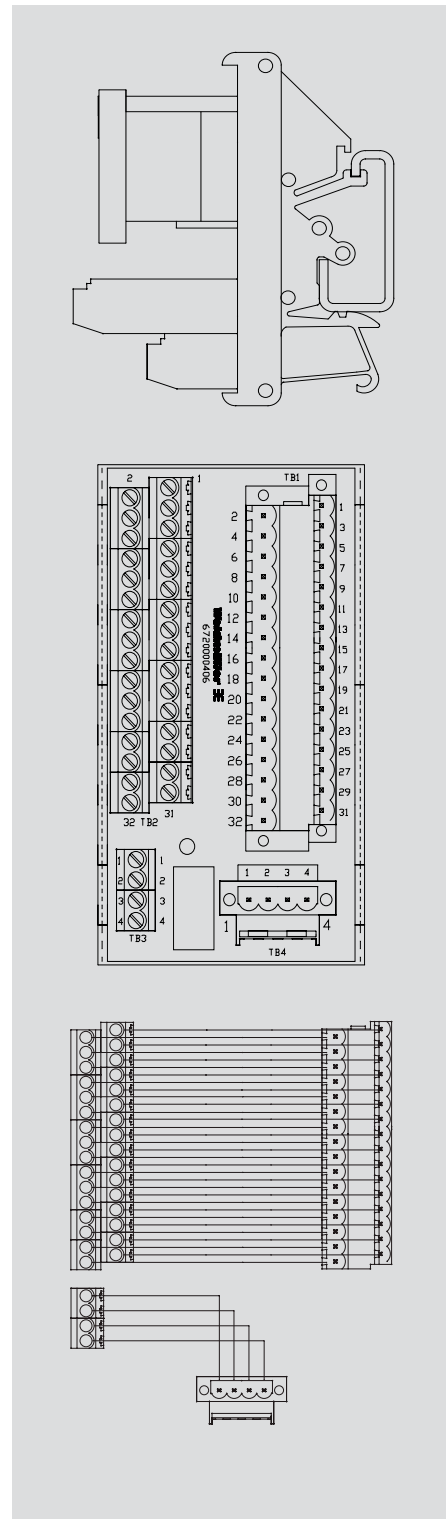
Screw connection	
<b>Note</b>	

Model	Qty	Part No.
32-pole plus 4-pole power, feed through interface module (Field wiring left)	1	6720000406

**Accessories**

Optional Cables	
<b>Note</b>	

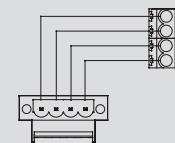
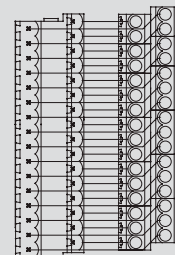
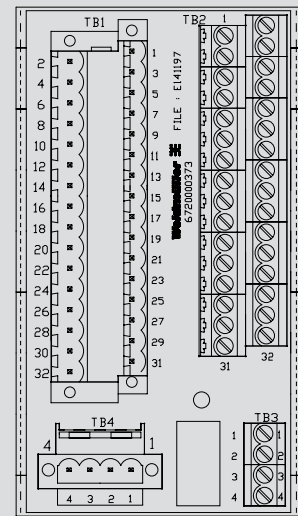
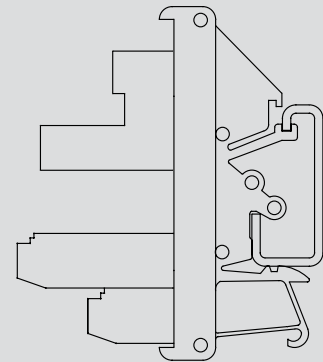
DWG No.	
a clamshell 32-pole each end	MS - C32x - C32x - Lxx - xxx
a clamshell 32-pole + 4-pole each end	MS - C2+xxx - C2+xxx - Lxx - xxx



**Field Termination Assembly**

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring terminations from RIGHT side
- 16 Channels
- Feed through connections
- For analog signals
- 32 points
- 4 additional terminations for power/return connections
- Honeywell C300 IOTAs
  - CC-TAIX01/TAIX11

**32 pole + 4, feed through interface module (Field wiring right)**



**Technical data**

Connection data	
Process side	
Type	
Torque	
Control side	
Type	
Rated data	
Rated voltage	
Max. current per channel	
Operating temperature	
Storage temperature	
General Features	
LED status indicator per channel	
Disconnection per channel	
Voltage measuring test points	
Current measuring test points	
Fuse via channel	
Supply voltage LED status	
Power supply fuse	
Terminal wire size	
Insulation stripping length	
Approvals	
Standards	
Dimensions	
Length x width x height (inches / mm)	
Note	

Screw connection	
LP2N terminal	
4.4. in-lbs (0.5Nm)	
Plug connection	
CLAMSHELL SLD 32-Pole	
Rated voltage	250V
Max. current per channel	5A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
LED status indicator per channel	No
Disconnection per channel	No
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
AWG 26 ...12	
Insulation stripping length	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	5.1 x 2.8 x 2.6 / 129.5 x 71.1 x 66
Note	

**Ordering data**

Model	Qty	Part No.
Screw connection 32-pole plus 4-pole power, feed through interface module (Field wiring right)	1	6720000373
Note		

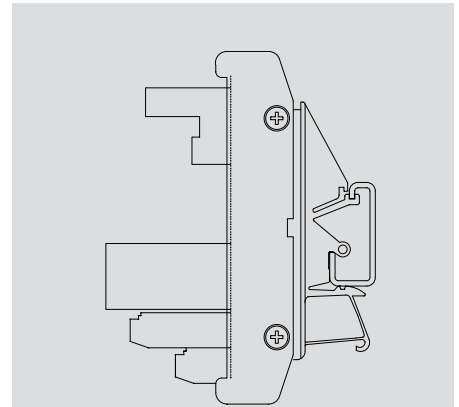
**Accessories**

	DWG No.
Optional Cables	a clamshell 32-pole each end <b>MS - C32x - C32x - Lxx - xxx</b> a clamshell 32-pole + 4-pole each end <b>MS - C2+xxx - C2+xxx - Lxx - xxx</b>
Note	

**Field Termination Assembly**

- CLAMSHELL style connection on module
- Disconnects for each channel
- Reduce Cabinet Space
- Field wiring terminations from LEFT side
- 16 Channels
- Feed through connections with disconnects
- For analog/discrete signals
- 32 points
- Honeywell C300 IOTAs
  - CC-TAOX01/TAOX11/TAON01/TAON11: CC-TDIL01/TDIL11 (NEED 2): CC-TDOB01/TDOB11 (NEED 2)

**32 pole, disconnect interface module (Field wiring left)**



**Technical data**

Connection data	
Process side	
Type	
Torque	
Control side	
Type	
Rated data	
Rated voltage	
Max. current per channel	
Operating temperature	
Storage temperature	
General Features	
LED status indicator per channel	
Disconnection per channel	
Voltage measuring test points	
Current measuring test points	
Fuse via channel	
Supply voltage LED status	
Power supply fuse	
Terminal wire size	
Insulation stripping length	
Approvals	
Standards	
Dimensions	
Length x width x height (inches / mm)	
Note	

Screw connection
LP2N terminal
4.4 in-lbs (0.5Nm)
Plug connection
CLAMSHELL SLD 32-Pole
250V
5A
0°C to +50°C
0°C to +50°C
No
Yes
No
No
No
No
No
AWG 26 ...12
6mm
cURus (E141197)
4.7 x 4.4 x 3.6 / 119.4 x 111.8 x 91.5

**Ordering data**

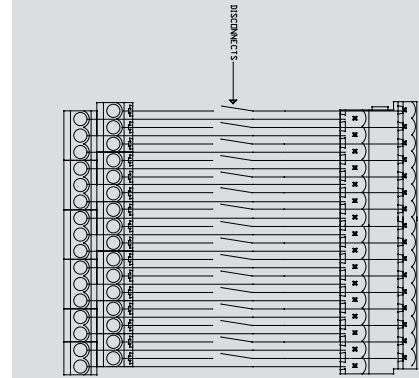
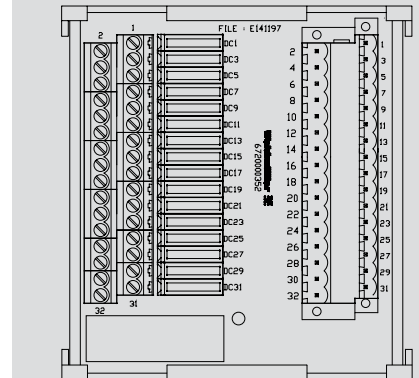
Screw connection	
Note	

Model	Qty	Part No.
32-pole, disconnect interface module (Field wiring left)	1	672000352
Disconnects located on terminals 1,3,5,...29,31		

**Accessories**

Optional Cable	
Note	

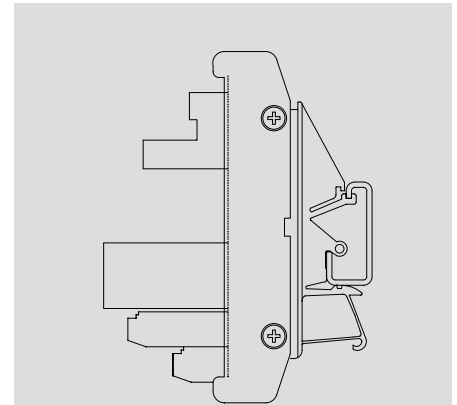
DWG No.	
a clamshell 32-pole to clamshell 32-pole	MS - C32x - C32x - Lxx - xxx
Required quantity based on Honeywell IOTA used	



### Field Termination Assembly

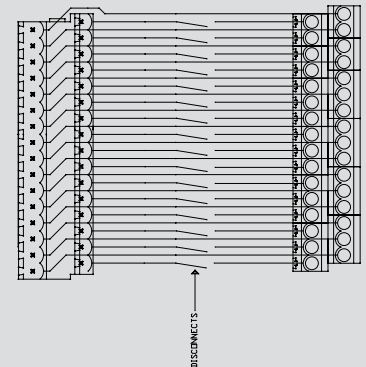
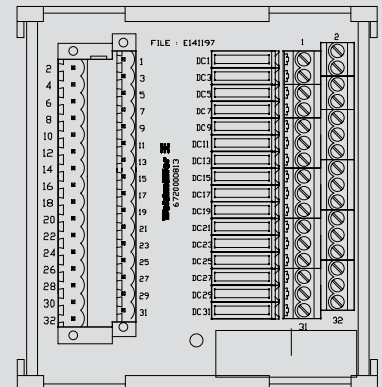
- CLAMSHELL style connection on module
- Disconnects for each channel
- Reduce Cabinet Space
- Field wiring terminations from RIGHT side
- 16 Channels
- Feed through connections with disconnects
- For analog/discrete signals
- 32 points
- Honeywell C300 IOTAs
  - CC-TAOX01/TAOX11/TAON01/TAON11: CC-TDIL01/TDIL11 (NEED 2); CC-TDOB01/TDOB11 (NEED 2)

### 32 pole, disconnect interface module (Field wiring right)



### Technical data

Connection data	
Process side	Screw connection
Type	LP2N terminal
Torque	4.4 in-lbs (0.5Nm)
Control side	Plug connection
Type	CLAMSHELL SLD 32-Pole
Rated data	
Rated voltage	250V
Max. current per channel	5A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	No
Disconnection per channel	Yes
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
Insulation stripping length	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	4.7 x 4.4 x 3.6 / 119.4 x 111.8 x 91.5
Note	



### Ordering data

Model	Qty	Part No.
Screw connection 32-pole, disconnect interface module (Field wiring right)	1	6720000813
Disconnects located on terminals 1,3,5....29,31		

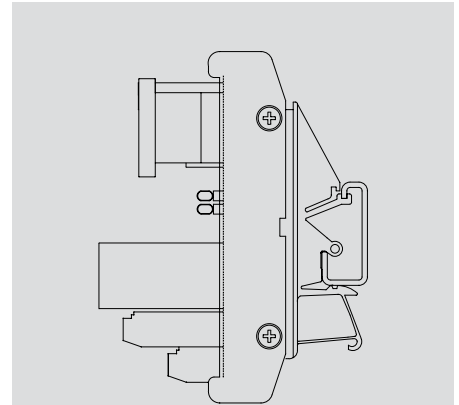
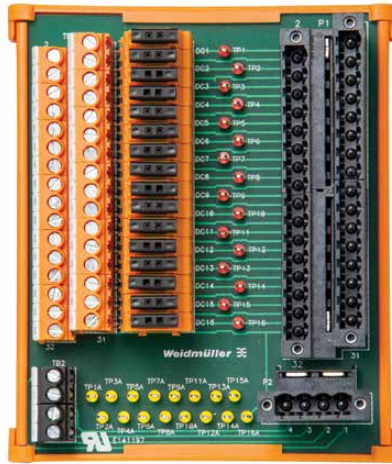
### Accessories

	DWG No.
Optional Cable	a clamshell 32-pole to clamshell 32-pole <b>MS - C32x - C32x - Lxx - xxx</b>
Note	Required quantity based on Honeywell IOTA used

**Field Termination Assembly**

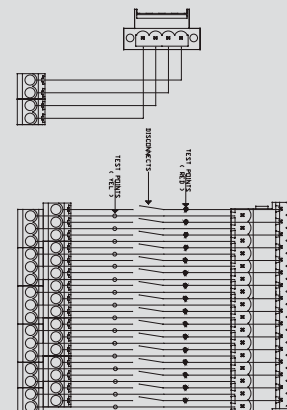
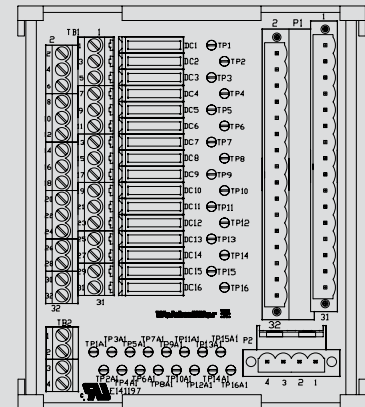
**32 pole + 4, disconnect interface module (Field wiring left)**

- CLAMSHELL style connection on module
- Test points for HART monitoring
- Disconnects for each channel
- Reduce Cabinet Space
- Field wiring termination from LEFT side
- 16 channels
- Feed through connections with disconnects
- For analog signals
- 32 points
- 4 additional terminations for power/return connections
- Honeywell C300 IOTAs
  - CC-TAOX01/TAOX11/TAON01/TAON1: CC-TDIL01/TDIL11 (NEED 2)



**Technical data**

Connection data	
Process side	Screw connection
Type	LP2N terminal
Torque	4.4 in-lbs (0.5Nm)
Control side	Plug connection
Type	CLAMSHELL SLD 32-Pole
Rated data	
Rated voltage	50V
Max. current per channel	1A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	No
Disconnection per channel	Yes
Voltage measuring test points	Yes
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
Insulation stripping length	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	5.1 x 4.4 x 3.6 / 129.5 x 111.8 x 91.5
Note	



**Ordering data**

Model	Qty	Part No.
Screw connection 32-pole, disconnect interface module (Field wiring left)	1	6720000764
Disconnects located on terminals 1,3,5...29,31		

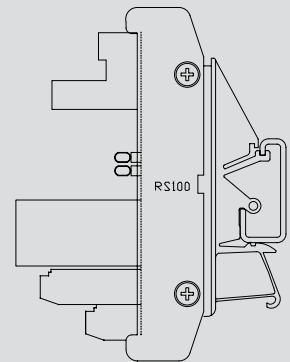
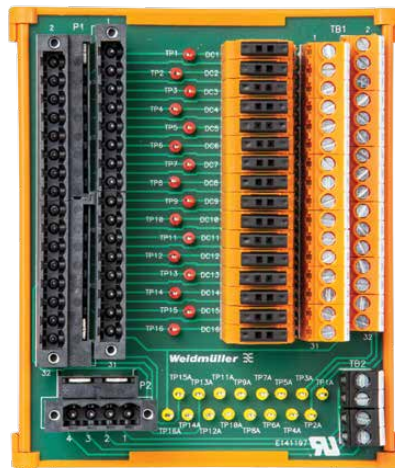
**Accessories**

	DWG No.
Optional Cables	a clamshell 32-pole to clamshell 32-pole <b>MS - C32x - C32x - Lxx - xxx</b> OR a clamshell 32-pole + 4-pole each end <b>MS - C2+xxx - C2+xxx - Lxx - xxx</b>
Required quantity based on Honeywell IOTA used	

### Field Termination Assembly

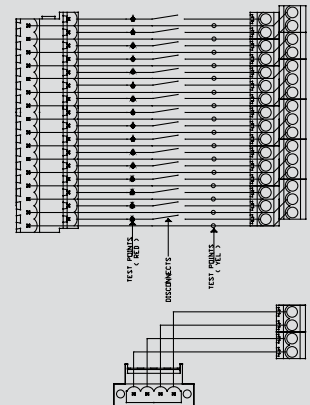
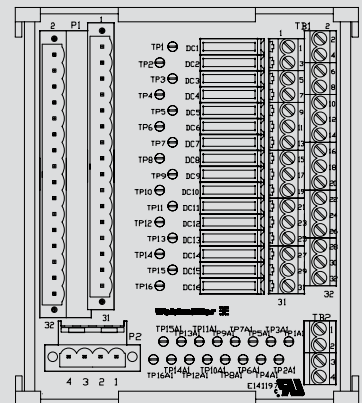
- CLAMSHELL style connection on module
- Test points for HART monitoring
- Disconnects for each channel
- Reduce Cabinet Space
- Field wiring termination from RIGHT side
- 16 channels
- Feed through connections with disconnects
- For analog signals
- 32 points
- 4 additional terminations for power/ return connections
- Honeywell C300 IOTAs
  - CC-TAOX01/TAOX11/TAON01/TAON11: CC-TDIL01/TDIL11 (NEED 2)

### 32 pole + 4, disconnect interface module (Field wiring right)



### Technical data

Connection data	
Process side	Screw connection
Type	LP2N terminal
Torque	4.4 in-lbs (0.5Nm)
Control side	Plug connection
Type	CLAMSHELL SLD 32-Pole
Rated data	
Rated voltage	50V
Max. current per channel	1A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	No
Disconnection per channel	Yes
Voltage measuring test points	Yes
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
AWG 26 ...12	
Insulation stripping length	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	5.1 x 4.4 x 3.6 / 129.5 x 111.8 x 91.5
Note	



### Ordering data

Model	Qty	Part No.
Screw connection 32-pole, disconnect interface module (Field wiring right)	1	6720000763
Disconnects located on terminals 1,3,5,...29,31		

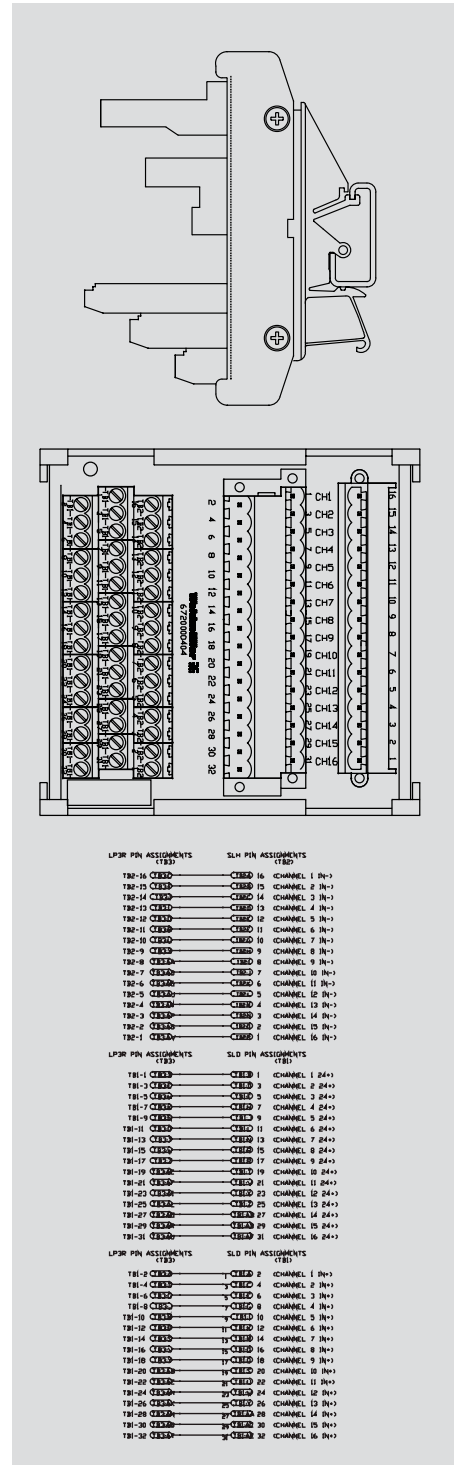
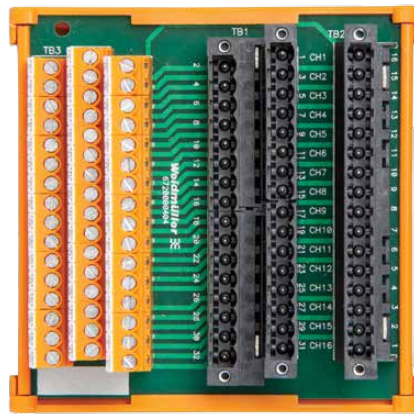
### Accessories

	DWG No.
Optional Cables	a clamshell 32-pole to clamshell 32-pole <b>OR</b> <b>MS - C32x - C32x - Lxx - xxx</b> a clamshell 32-pole + 4-pole each end <b>MS - C2+xxx - C2+xxx - Lxx - xxx</b>
<b>Note</b>	Required quantity based on Honeywell IOTA used

**Field Termination Assembly**

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring terminations from LEFT side
- 16 Channels
- Feed through connections
- For differential analog input signals
- 48 points
- Honeywell C300 IOTAs
  - C-TAID01/TAID11

**48 pole, differential feed through interface module (Field wiring left)**



**Technical data**

Connection data	
Process side	Screw connection
Type	LP2N terminal
Torque	4.4. in-lbs (0.5Nm)
Control side	Plug connection
Type	CLAMSHELL SLD 32-Pole and CLAMSHELL SLD 16-Pole
Rated data	
Rated voltage	250V
Max. current per channel	5A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	No
Disconnection per channel	No
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
Insulation stripping length	AWG 26 ... 12
	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	4.2 x 4.4 x 3.7 / 106.7 x 111.8 x 94.0
Note	

**Ordering data**

Model	Qty	Part No.
48 pole, differential feed through interface module (Field wiring left)	1	672000040
Note		

**Accessories**

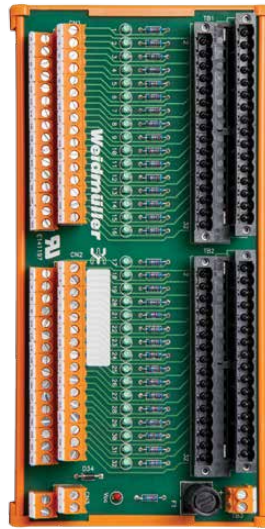
	MS - C32x - C32x - Lxx - xxx	DWG No.
Optional Cables	a clamshell 32-pole to clamshell 32-pole	
Note	a clamshell 16-pole each end	



**Field Termination Assembly**

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Channel indication LED
- Field wiring termination from LEFT side
- 32 channels
- Feed through connections
- For digital input signals (non-line monitored)
- 64 points (2 x 32)
- Honeywell C300 IOTAs
  - CC-TDIL01/TDIL11 (NON-LINE MONITORED ONLY)

**64 pole, digital input interface module with indication LED (Field wiring left)**



**Technical data**

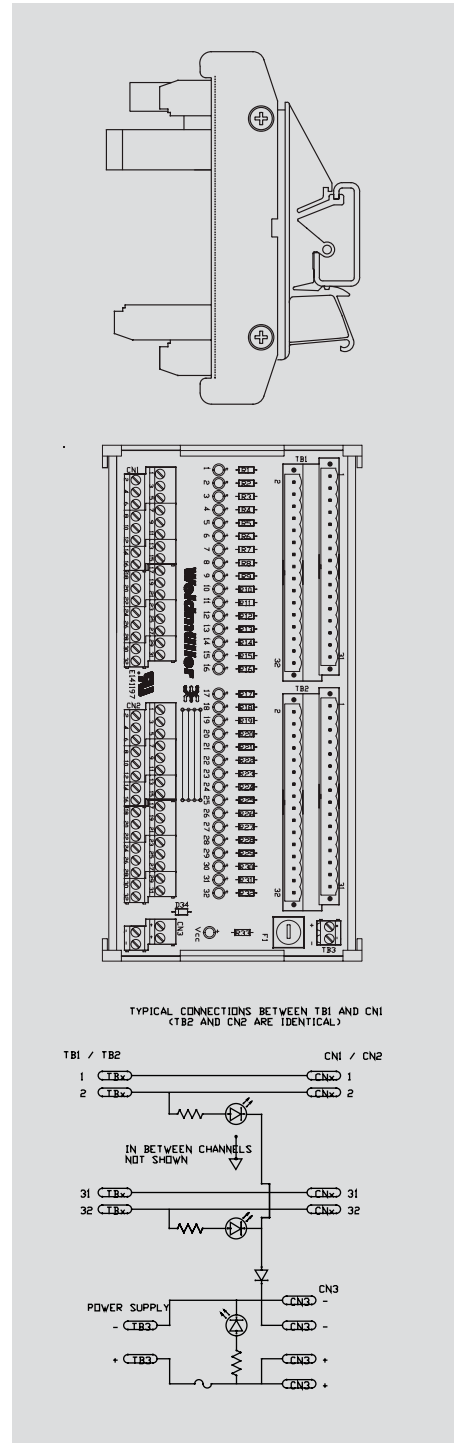
Connection data	
Process side	Screw connection
Type	LM2N terminal
Torque	4.4. in-lbs (0.5Nm)
Control side	Plug connection
Type	2 X CLAMSHELL SLD 32-Pole
Rated data	
Rated voltage	24 Vdc
Max. current per channel	1A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	Yes
Disconnection per channel	No
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	Yes
Power supply fuse	Yes
Terminal wire size	
Insulation stripping length	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	9.0 x 4.5 x 3.6 / 229 x 115 x 91.5
Note	
	For use with non-line monitored inputs only

**Ordering data**

Model	Qty	Part No.
32-channel digital input interface module (Field wiring left)	1	<b>6720000570</b>
Note		
For use with non-line monitored inputs only		

**Accessories**

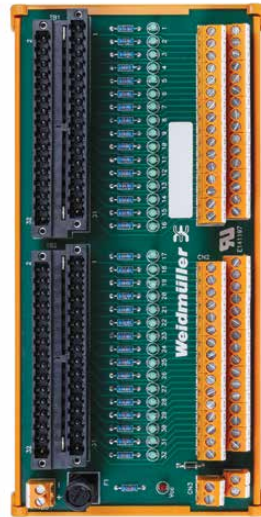
DWG No.	
Optional Cables	a clamshell 32-pole to clamshell 32-pole <b>MS - C32x - C32x - Lxx - xxx</b>
Note	



### Field Termination Assembly

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Channel indication LED
- Field wiring termination from RIGHT side
- 32 channels
- Feed through connections
- For digital input signals (non-line monitored)
- 64 points (2 x 32)
- Honeywell C300 IOTAs
  - CC-TDIL01/TDIL 11 (NON-LINE MONITORED ONLY)

### 64 pole, digital input interface module with indication LED (Field wiring right)



### Technical data

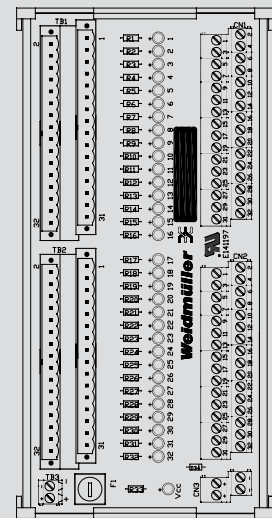
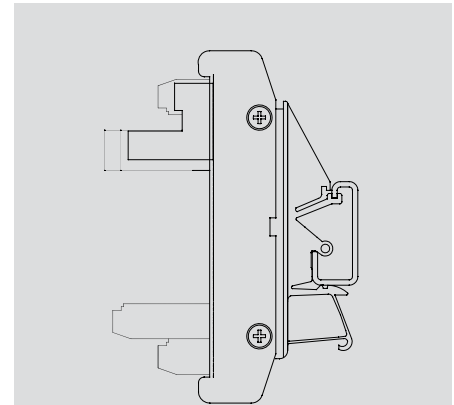
Connection data	
Process side	Screw connection
Type	LM2N terminal
Torque	4.4. in-lbs (0.5Nm)
Control side	Plug connection
Type	2 X CLAMSHELL SLD 32-Pole
Rated data	
Rated voltage	24 Vdc
Max. current per channel	1A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	Yes
Disconnection per channel	No
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	No
Supply voltage LED status	Yes
Power supply fuse	Yes
Terminal wire size	
Insulation stripping length	AWG 26 ...12 6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	9.0 x 4.5 x 3.6 / 229 x 115 x 91.5
Note	For use with non-line monitored inputs only

### Ordering data

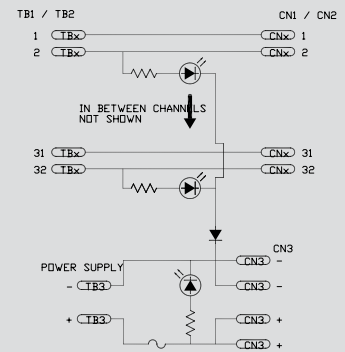
Model	Qty	Part No.
32-channel digital input interface module (Field wiring right)	1	6720000824
For use with non-line monitored inputs only		

### Accessories

DWG No.
a clamshell 32-pole to clamshell 32-pole <b>MS - C32x - C32x - Lxx - xxx</b>



TYPICAL CONNECTIONS BETWEEN TBI AND CNI (TBE AND CNE ARE IDENTICAL)



**Field Termination Assembly**

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring termination from RIGHT side
- 16 channel
- Interposing relay input
- For digital input signals
- One form C contact per channel
- 32 points (Two points per channel)
- Honeywell C300 IOTAs
  - CC-TDIL01, CC-TDIL11,
  - Cx-TDIL51, Cx-TDIL61

**32 pole, digital input relay module (Field wiring right)**

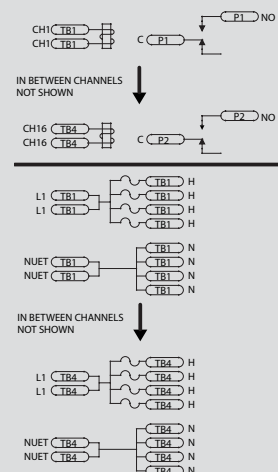
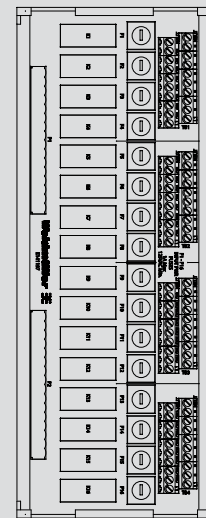
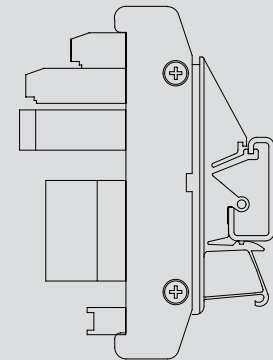


**Technical data**

Connection data	
Process side	Screw connection
Type	LP2N terminal
Torque	4.4 in-lbs (0.5Nm)
Control side	Plug connection
Type	CLAMSHELL 2x16
Rated data	
Rated voltage (control/field)	24 Vdc / 125 Vac @ 6.7mA typical relay coil current
Dry contacts	2-Amp input per channel maximum
Field power output	1-Amp maximum per channel; 125 Vac max. (Fused: 1-1/4 x 1/4, 1A max) 4-Amp maximum per group of 4 channels
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	No
Disconnection per channel	No
Channel shield connections	No
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	Yes (1-1/4 x 1/4, 1A max)
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
Insulation stripping length (TB3/TB5)	AWG 26 ...12
	6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	11.5 x 4.4 x 4.3 / 292 x 111.8 x 110
Note	

**Ordering data**

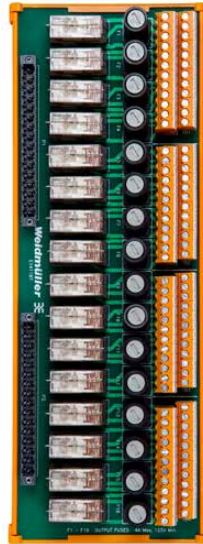
Model	Qty	Part No.
Screw connection	1	6720000760
<b>Note</b>		
Accessories		
Optional Cables		
<b>Note</b>		
		<b>DWG No.</b>
a clamshell 32-point to 2 x clamshell 16-point	<b>MS - C32x - C26x - Rxx - xxx</b>	



### Field Termination Assembly

- CLAMSHELL style connection on module
- Reduce Cabinet Space
- Field wiring termination from RIGHT side
- 16 channels
- Interposing relay output
- For digital output signals
- One form C contact per channel
- 32 points (Two points per channel)
- With LED indication on coil side of relay
- Honeywell C300 IOTAs
  - CC-TDOB01/CC-TDOB11

### 32 pole, digital output relay module (Field wiring right)



### Technical data

Connection data	
Process side	Screw connection
Type	LM2N terminal
Torque	4.4. in-lbs (0.5Nm)
Control side	Plug connection
Type	CLAMSHELL 2x16
Rated data	
Rated voltage (control/field)	24 Vdc/125 Vac
Dry contacts output	10-Amp per channel maximum
Field power output	4-Amp maximum per channel (Fused: 5x20mm, 4A max) 16-Amp maximum per group of 4 channels
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
General Features	
LED status indicator per channel	Yes
Disconnection per channel	No
Channel shield connections	No
Voltage measuring test points	No
Current measuring test points	No
Fuse via channel	Yes (5x20mm, 4A max)
Supply voltage LED status	No
Power supply fuse	No
Terminal wire size	
Insulation stripping length (TB3/TB5)	AWG 26 ... 12 6mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	11.5 x 4.4 x 4.3 / 292 x 111.8 x 110
Note	

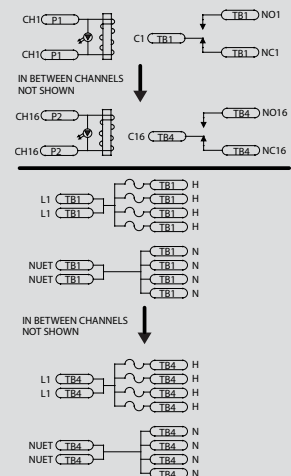
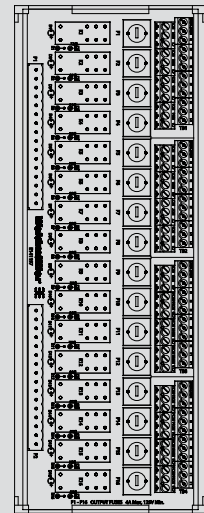
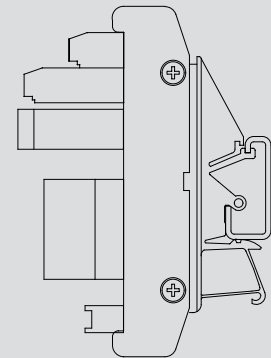
Model	Qty	Part No.
32 point, 16-channel, digital output relay assembly (Field wiring right)	1	6720000902
DWG No.		
a clamshell 32-point to 2 x clamshell 16-point	MS - C32x - C26x - Rxx - xxx	

### Ordering data

Screw connection
Note

### Accessories

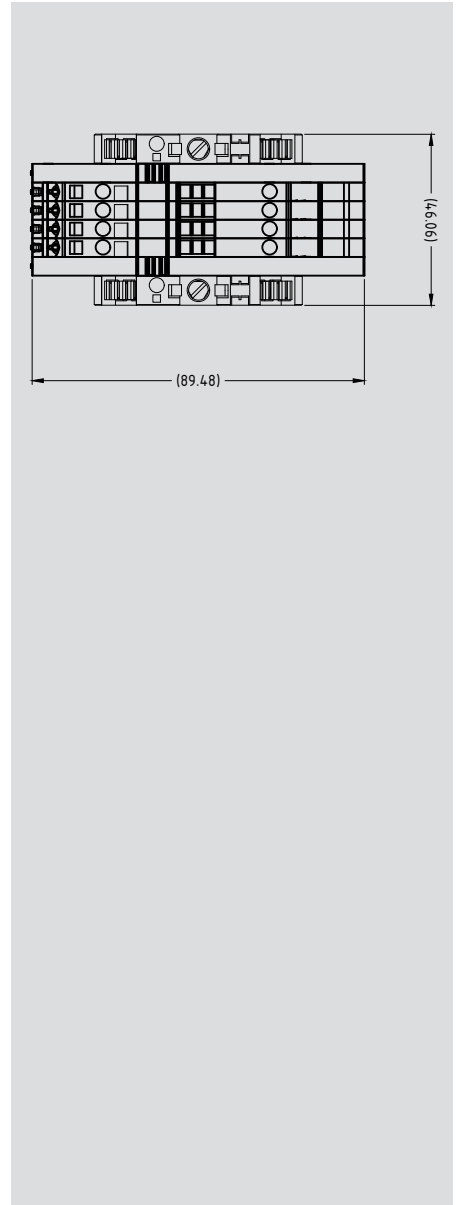
Optional Cables
Note



## Marshalling Solutions - Terminal Block Kits

### Terminal Block Kit

- WMF 2.5 BLZ Terminal Assembly
- Dekafix markers included
- Secured with rubber band
- 4-point version
- With pluggable BLZ interface



### Technical data

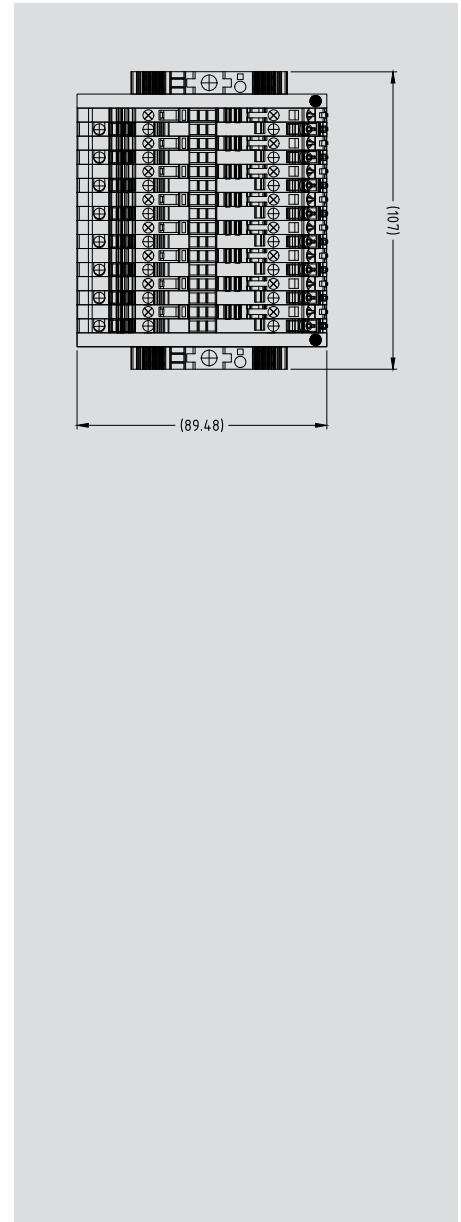
Connection data	
Process side	Screw connection
Type	WMF 2.5 BLZ Terminals
Torque	4.4 in – lbs (0.5 Nm)
Control side	Screw connection / Pluggable BLZ
Rated data	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	-50°C to +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	-
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	AWG 26 ... 12
BLZ Insulation stripping length	10mm
	7mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 1.85 x 1.8 / 90 x 47 x 45
Note	

### Ordering data

Model	Qty	Part No.
4 point assembly WMF 4-CH BLZ 4; Screw connection	1	6760005174
Note		
Without PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 BLZ Terminal Assembly
- WS 8/5 MC markers included
- Secured with rubber band
- 8-channel version
- With integrated ground connection
- With pluggable BLZ interface
- Disconnect for each channel
- With PE Rail connection



**Technical data**

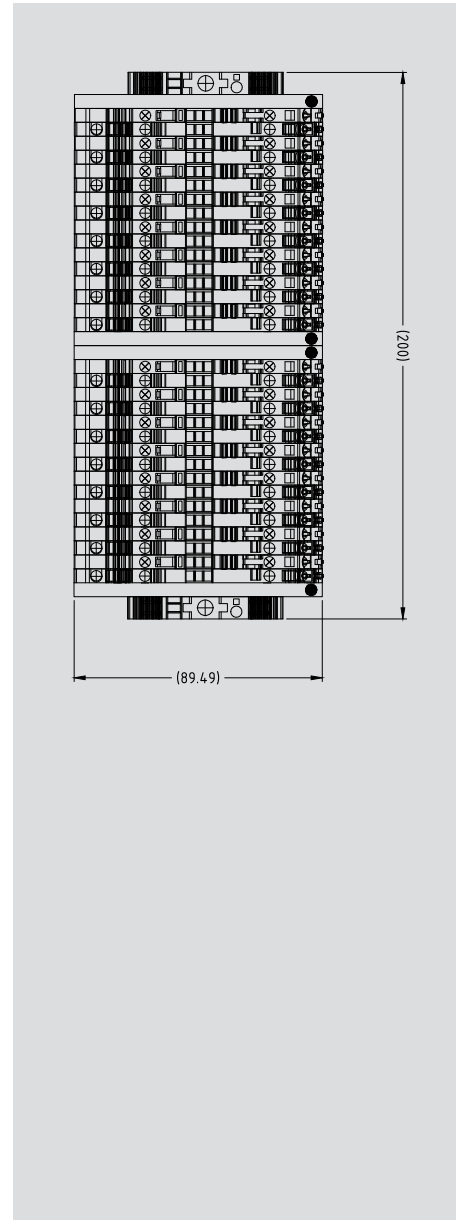
Connection data	
Process side	Screw connection
Type	WMF 2.5 BLZ and WMF 2.5 DI BLZ Terminals
Torque	4.4 in - lbs (0.5 Nm)
Control side	Screw connection / Pluggable BLZ
Rated data	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	- 50°C - +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	AWG 26 ... 12
BLZ Insulation stripping length	10mm
	7mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 4.2 x 1.8 / 90 x 107 x 45
8 channel/ 16 terminals	
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
8-Channel assembly WMF 8-CH BLZ 16; Screw/Plug Connection	1	6760005175
Note		
With PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 BLZ Terminal Assembly
- WS 8/5 MC markers included
- Secured with rubber band
- 16-channel version
- With integrated ground connection
- With pluggable BLZ interface
- Disconnect for each channel
- With PE Rail connection



**Technical data**

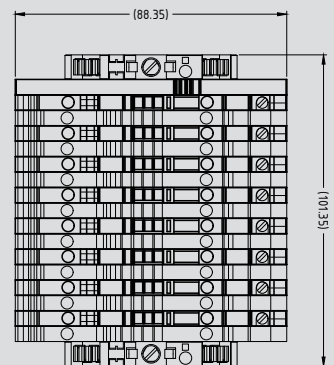
Connection data	
Process side	
Type	Screw connection
Torque	WMF 2.5 BLZ and WMF 2.5 DI BLZ Terminals 4.4 in - lbs (0.5 Nm)
Control side	Screw connection / Pluggable BLZ
Rated data	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	- 50°C - +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	AWG 26 ... 12
BLZ Insulation stripping length	10mm
	7mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 7.8 x 1.8 / 90 x 200 x 45
16 channel/ 32 terminals	
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
16-Channel assembly WMF 16-CH 2 x BLZ 16; Screw/Plug Connection	1	6760005176
With PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 Terminal Assembly with disconnects
- Dekafix markers included
- Secured with rubber band
- 8-channel version
- Screw connection to Screw connection
- Disconnect for each channel
- With PE Rail connection



**Technical data**

Connection data	
Process side	Screw connection
Type	WMF 2.5 and WMF 2.5 DI PE Terminals
Torque	4.4 in - lbs (0.5Nm)
Control side	Screw connection
Rated data	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	-50°C to +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	10mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 4.1 x 1.8 / 89 x 102 x 45
Note	
	Disconnect location shown on drawing

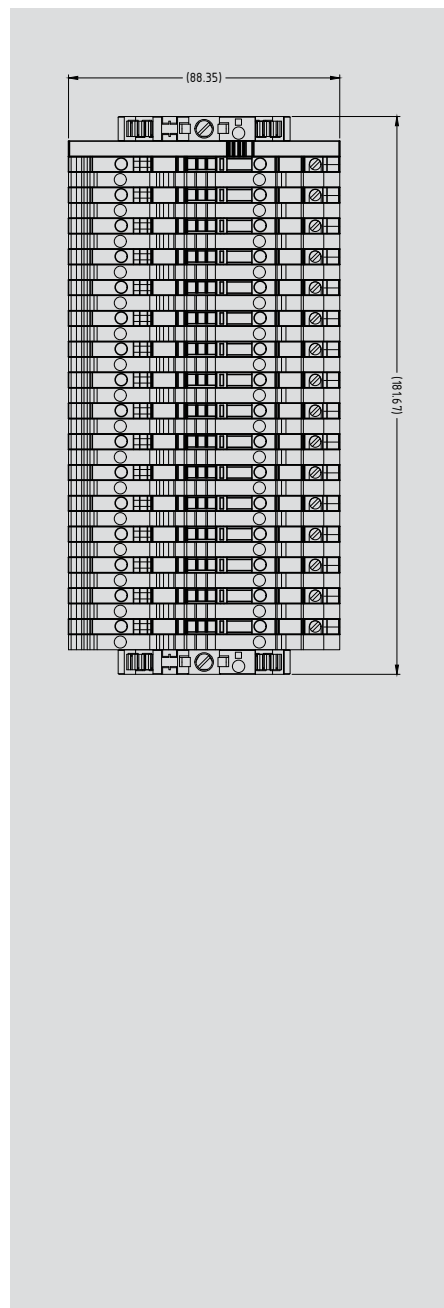
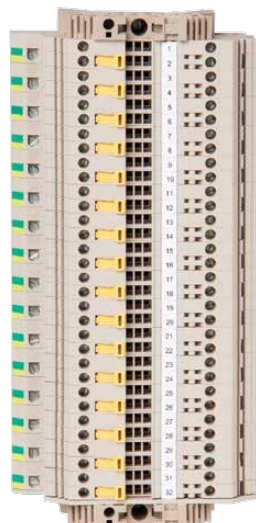
**Ordering data**

Model	Qty	Part No.
8-Channel assembly WMF Standard; Screw connection	1	6760005177
With PE Rail connection		

**Note**

**Terminal Block Kit**

- WMF 2.5 Terminal Assembly with disconnects
- Dekafix markers included
- Secured with rubber band
- 16-channel version
- Screw connection to Screw connection
- Disconnect for each channel
- With PE Rail connection



**Technical data**

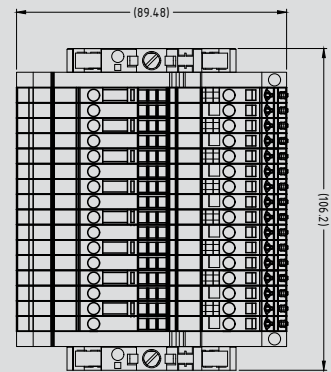
Connection data	
Process side	Screw connection
Type	WMF 2.5 and WMF 2.5 DI PE Terminals
Torque	4.4 in - lbs (0.5 Nm)
Control side	Screw connection
Rated data	
Rated voltage	300V
Max. current per channel	15A
Operating temperature	- 50°C - +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	10mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 7.2 x 1.8 / 89 x 182 x 45
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
16-Channel assembly WMF Standard; Screw connection	1	6760005178
Note		
With PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 BLZ Terminal Assembly with disconnects
- Dekafix markers included
- Secured with rubber band
- 8-channel version
- With pluggable BLZ interface
- Disconnect for each channel



**Technical data**

<b>Connection data</b>	
Process side	Screw connection
Type	WMF 2.5 BLZ and WMF 2.5 DI BLZ
Torque	4.4 in - lbs (0.5Nm)
Control side	Screw connection/Pluggable BLZ
<b>Rated data</b>	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	-50°C to +120°C (Thermoplastic)
Storage temperature	
<b>General Features</b>	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
<b>Terminal wire size</b>	
Terminal Insulation stripping length	AWG 26 ... 12 10mm
BLZ Insulation stripping length	7mm
<b>Approvals</b>	
Standards	cURus (E141197)
<b>Dimensions</b>	
Length x width x height (inches / mm)	3.6 x 4.3 x 1.8 / 90 x 107 x 45
<b>Note</b>	
	Disconnect location shown on drawing

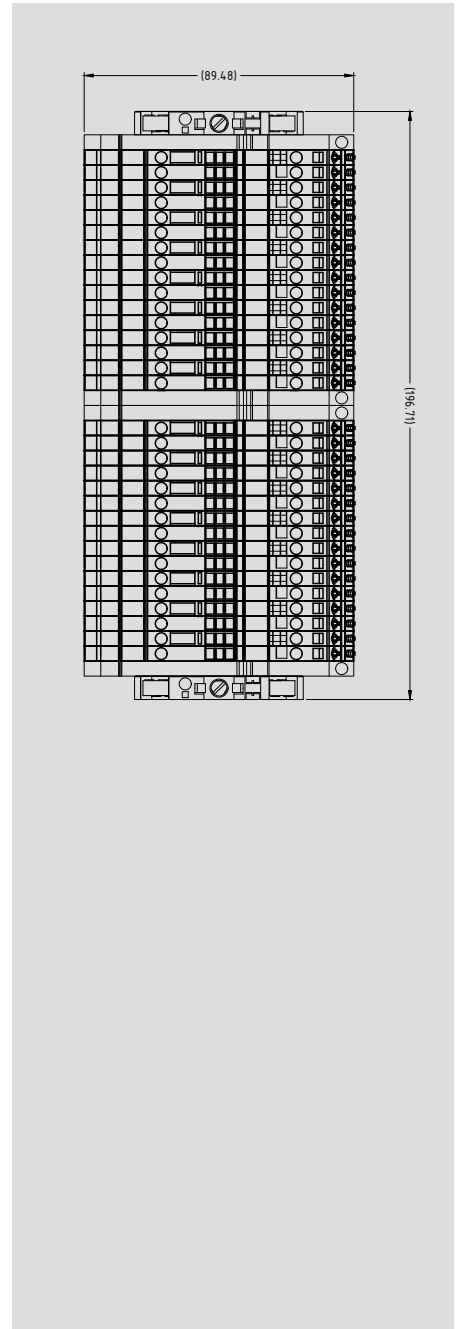
**Ordering data**

Model	Qty	Part No.
8-Channel assembly WMF BLZ; Screw/Plug connection	1	6760005179
Without PE Rail connection		

**Note**

**Terminal Block Kit**

- WMF 2.5 BLZ Terminal Assembly with disconnects
- Dekafix markers included
- Secured with rubber band
- 16-channel version
- With pluggable BLZ interface
- Disconnect for each channel



**Technical data**

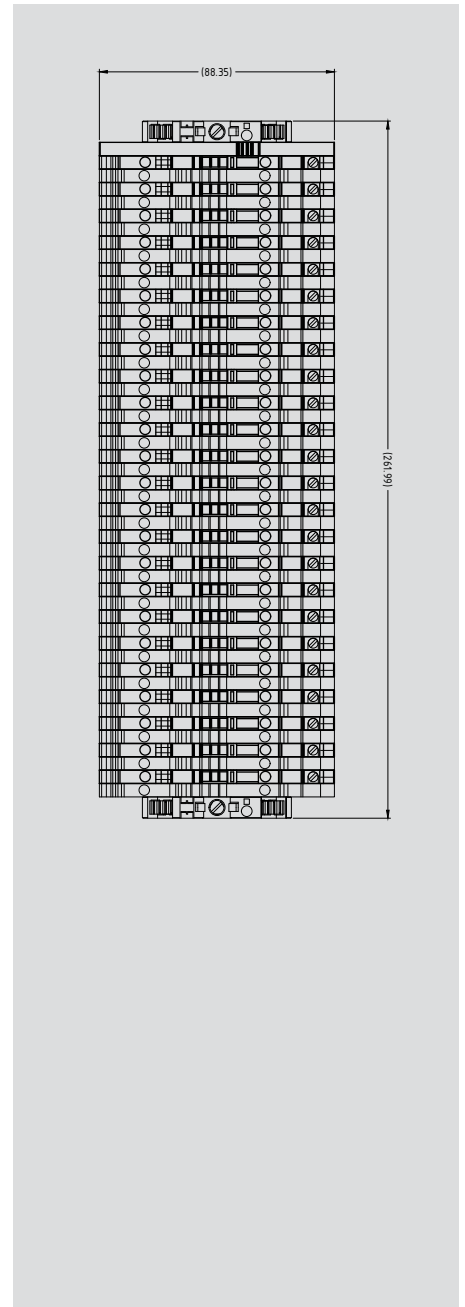
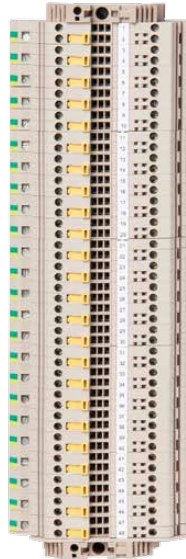
Connection data	
Process side	Screw connection
Type	WMF 2.5 BLZ and WMF 2.5 DI BLZ
Torque	4.4 in - lbs (0.5 Nm)
Control side	Screw connection / Pluggable BLZ
Rated data	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	- 50°C - +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	AWG 26 ... 12
BLZ Insulation stripping length	10mm
	7mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.6 x 7.8 x 1.8 / 90 x 197 x 45
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
16-Channel assembly WMF BLZ ; Screw/Plug connection	1	6760005180
Note		
Without PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 Terminal Assembly with disconnects
- Dekafix markers included
- Secured with rubber band
- 16-channel differential/24-channel /48-pole version
- Screw connection to Screw connection
- Disconnect for each channel
- With PE Rail connection



**Technical data**

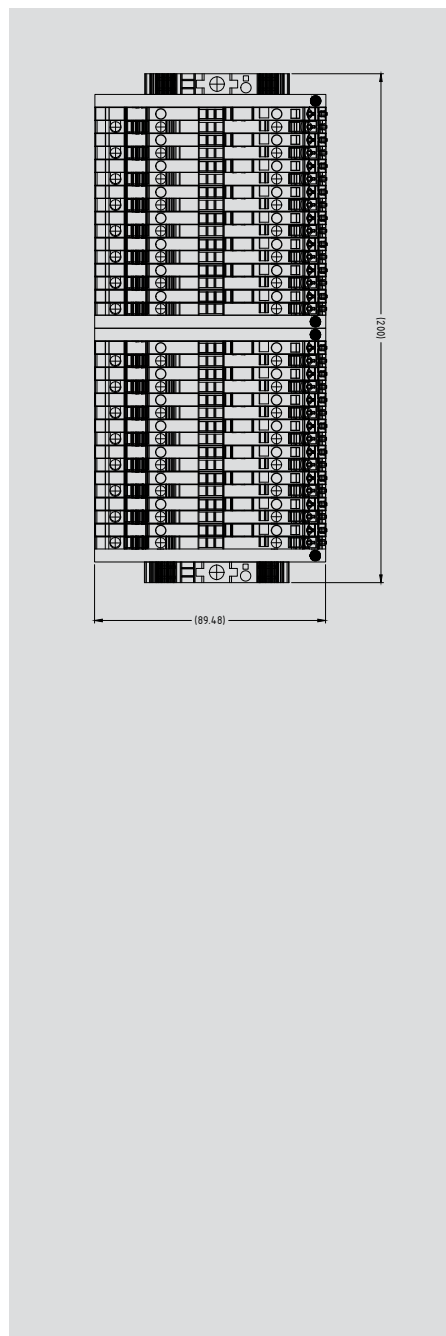
Connection data	
Process side	Screw connection
Type	WMF 2.5 and WMF 2.5 DI PE
Torque	4.4 in - lbs (0.5Nm)
Control side	Screw connection
Rated data	
Rated voltage	300V
Max. current per channel	15A
Operating temperature	-50°C to +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	10mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 10.4 x 1.8 / 89 x 262 x 45
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
24-Channel assembly WMF 2.5; Screw connection	1	6760005181
Note		
With PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 BLZ Terminal Assembly
- Dekafix markers included
- Secured with rubber band
- 16-channel version
- With pluggable BLZ interface
- With PE Rail connection



**Technical data**

Connection data	
Process side	Screw connection
Type	WMF 2.5 BLZ and WMF 2.5 BLZ PE Terminals
Torque	4.4 in - lbs (0.5Nm)
Control side	Screw connection/Pluggable BLZ
Rated data	
Rated voltage	300V
Max. current per channel	10A
Operating temperature	-50°C to +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	-
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	AWG 26 ... 12
BLZ Insulation stripping length	10mm
	7mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.6 x 7.9 x 1.8 / 90 x 199 x 45
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
16-Channel assembly WMF BLZ Standard, Screw/Plug connection	1	6760006077
Note		
With PE Rail connection		

**Terminal Block Kit**

- WMF 2.5 Terminal Assembly with disconnects
- Dekafix markers included
- Secured with rubber band
- 16-channel version
- Screw connection to Screw connection
- Disconnect for each channel

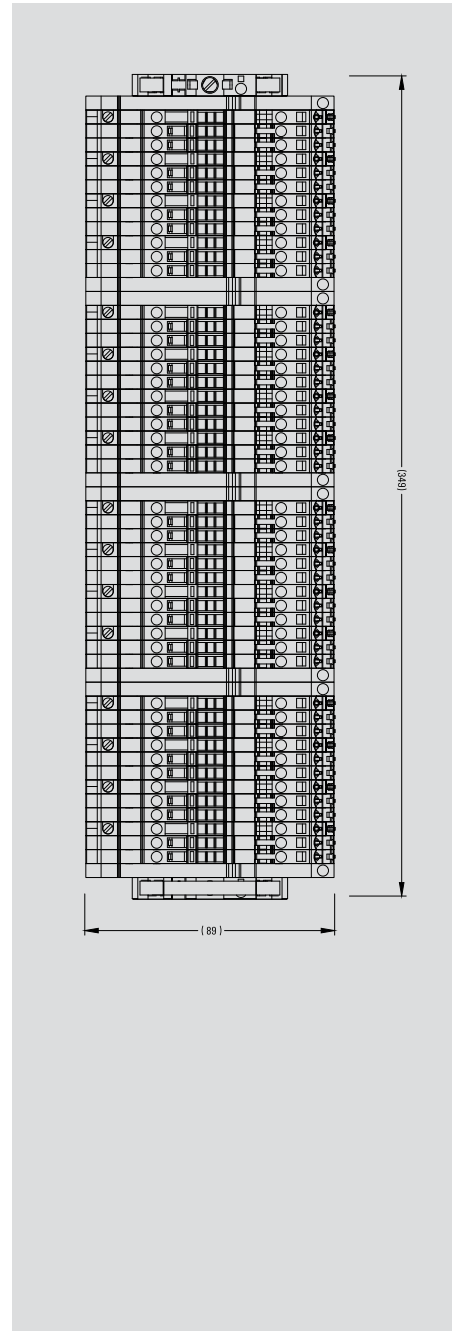


**Technical data**

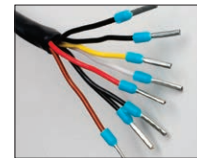
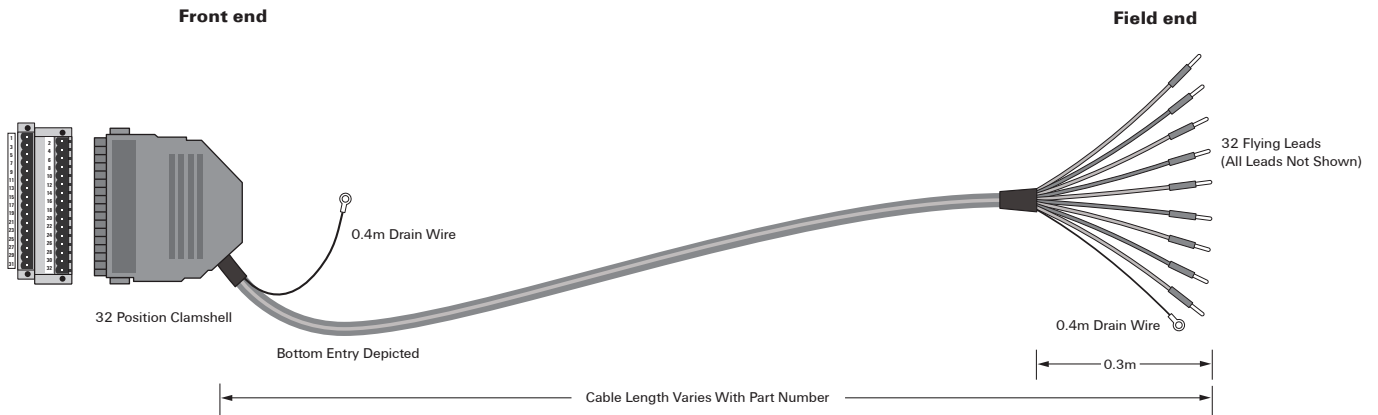
Connection data	
Process side	Screw connection
Type	WMF 2.5 DI BLZ and WMF 2.5 DI BLZ PE Terminals
Torque	4.4 in-lbs (0.5Nm)
Control side	Screw connection
Rated data	
Rated voltage	300V
Max. current per channel	UL (D) 10A
Operating temperature	-50°C to +120°C (Thermoplastic)
Storage temperature	
General Features	
LED status indicator per channel	-
Disconnection per channel	Yes
Voltage measuring test points	-
Current measuring test points	-
Fuse via channel	-
Supply voltage LED status	-
Power supply fuse	-
Terminal wire size	
Terminal Insulation stripping length	10mm
Approvals	
Standards	cURus (E141197)
Dimensions	
Length x width x height (inches / mm)	3.5 x 13.8 x 1.8 / 89 x 349 x 45
Note	
	Disconnect location shown on drawing

**Ordering data**

Model	Qty	Part No.
16-Channel WMF Standard; Screw connection	1	6760006318
Note		
With PE Rail connection		



**Cable Assembly**



**32 Position CLAMSHELL Connector**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

**32 Flying Leads from CLAMSHELL Connector**

Lead #	Insulation Color	Lead #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

See Specification Table on page 47 or 50.

Additional cable lengths available. Contact your Weidmuller Sales Representative.

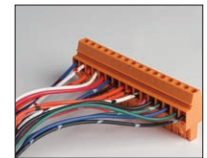
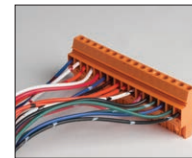
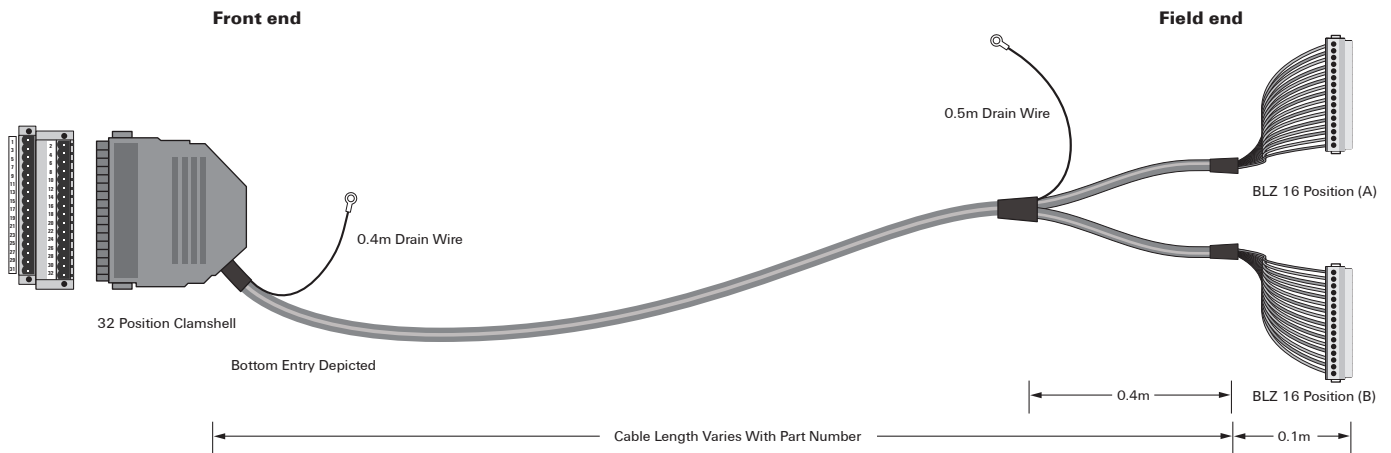
**Additional Information**

Use cable drawing MS-C32x-xFLXxxx-xxx-xxx.

For the field end of this cable, the following leads are available: ferruled flying, blunt flying, ring lug and tinned flying.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

### Cable Assembly



#### 32 Position CLAMSHELL Connector

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

#### 16 Position Connector BLZ (A)

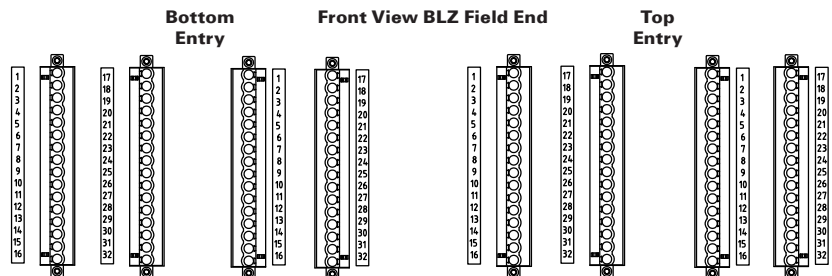
PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET

#### 16 Position Connector BLZ (B)

PIN #	Insulation Color	PIN #	Insulation Color
1	BLUE	2	BLUE / WHITE
3	BLUE / RED	4	BLUE / BLACK
5	BLUE / WHITE / BLACK	6	VIOLET
7	VIOLET / WHITE	8	VIOLET / BLACK
9	VIOLET / ORANGE / BLACK	10	VIOLET / BLACK / WHITE
11	ORANGE	12	ORANGE / RED
13	ORANGE / BLACK	14	ORANGE / VIOLET
15	ORANGE / WHITE / BLACK	16	ORANGE / BLACK / VIOLET

See Specification Table on page 47 or 50.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

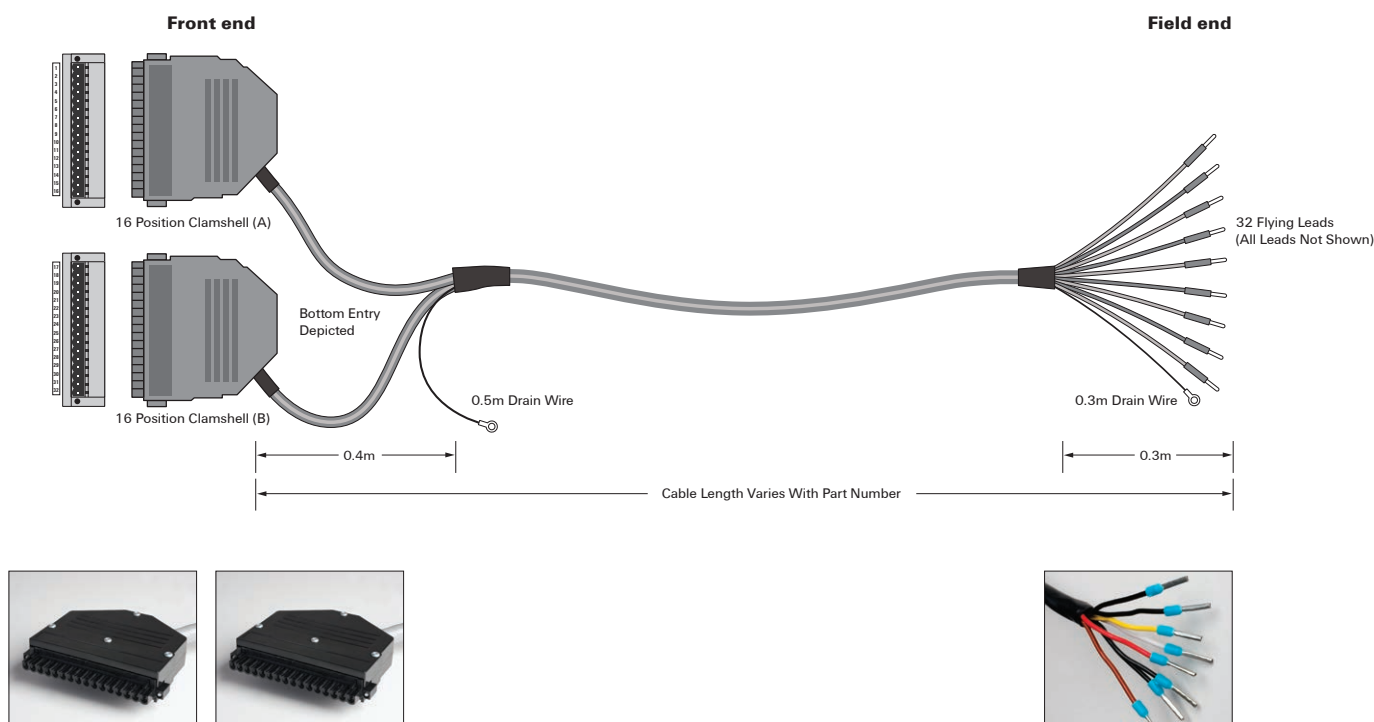


#### Additional Information

Use cable drawing MS-C32x-B26Xxx-xxx-xxx.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

Cable Assembly



16 Position CLAMSHELL (A)

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET

32 Flying Leads from CLAMSHELL (A)

Lead #	Insulation Color	Lead #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET

16 Position CLAMSHELL (B)

PIN #	Insulation Color	PIN #	Insulation Color
1	BLUE	2	BLUE / WHITE
3	BLUE / RED	4	BLUE / BLACK
5	BLUE / WHITE / BLACK	6	VIOLET
7	VIOLET / WHITE	8	VIOLET / BLACK
9	VIOLET / ORANGE / BLACK	10	VIOLET / BLACK / WHITE
11	ORANGE	12	ORANGE / RED
13	ORANGE / BLACK	14	ORANGE / VIOLET
15	ORANGE / WHITE / BLACK	16	ORANGE / BLACK / VIOLET

32 Flying Leads from CLAMSHELL (B)

Lead #	Insulation Color	Lead #	Insulation Color
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

See Specification Table on page 47 or 50.

Additional cable lengths available. Contact your Weidmüller Sales Representative.

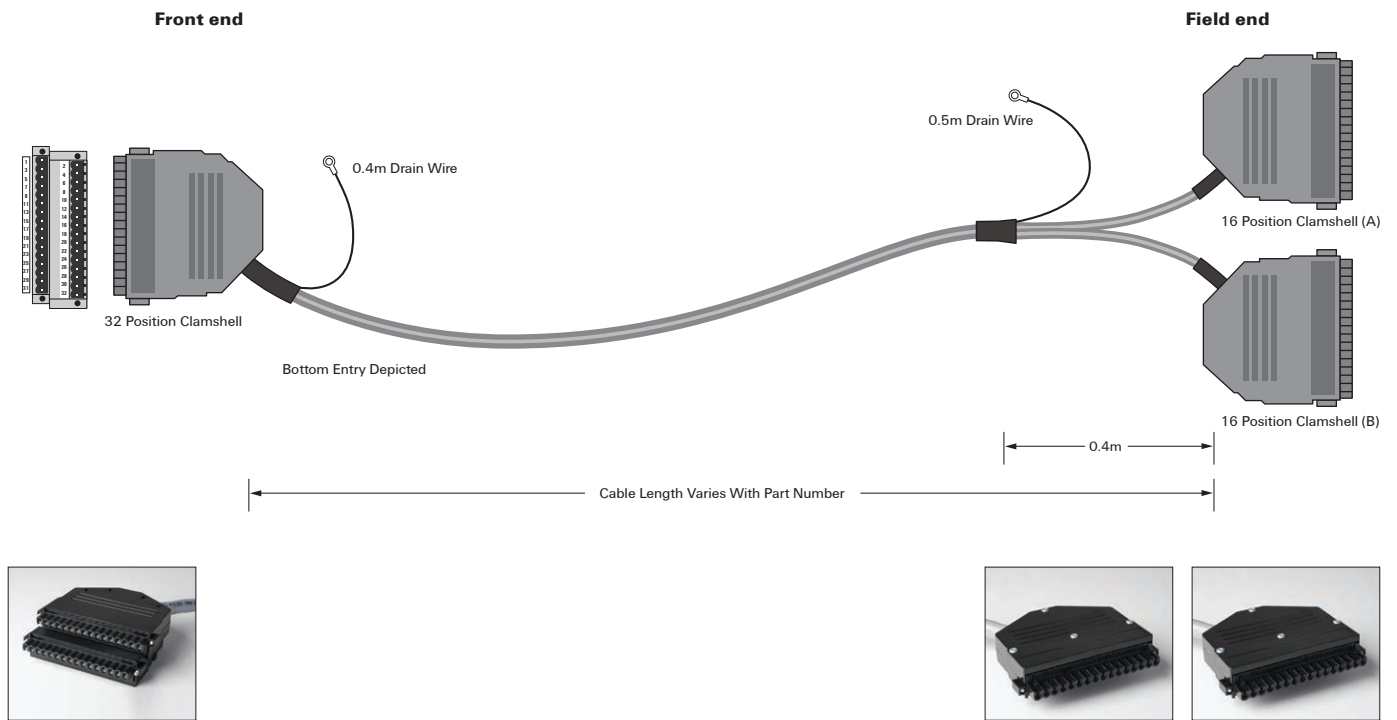
Additional Information

Use cable drawing MS-C26xxx-xFLXxx-xxx-xxx.

For the field end of this cable, the following leads are available: ferruled flying, blunt flying, ring lug and tinned flying.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

**Cable Assembly**



**32 Position CLAMSHELL Connector**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

**16 Position Connector CLAMSHELL (A)**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET

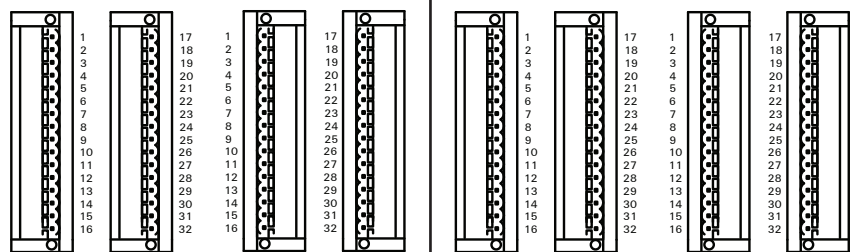
**16 Position Connector CLAMSHELL (B)**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLUE	2	BLUE / WHITE
3	BLUE / RED	4	BLUE / BLACK
5	BLUE / WHITE / BLACK	6	VIOLET
7	VIOLET / WHITE	8	VIOLET / BLACK
9	VIOLET / ORANGE / BLACK	10	VIOLET / BLACK / WHITE
11	ORANGE	12	ORANGE / RED
13	ORANGE / BLACK	14	ORANGE / VIOLET
15	ORANGE / WHITE / BLACK	16	ORANGE / BLACK / VIOLET

See Specification Table on page 47 or 50.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

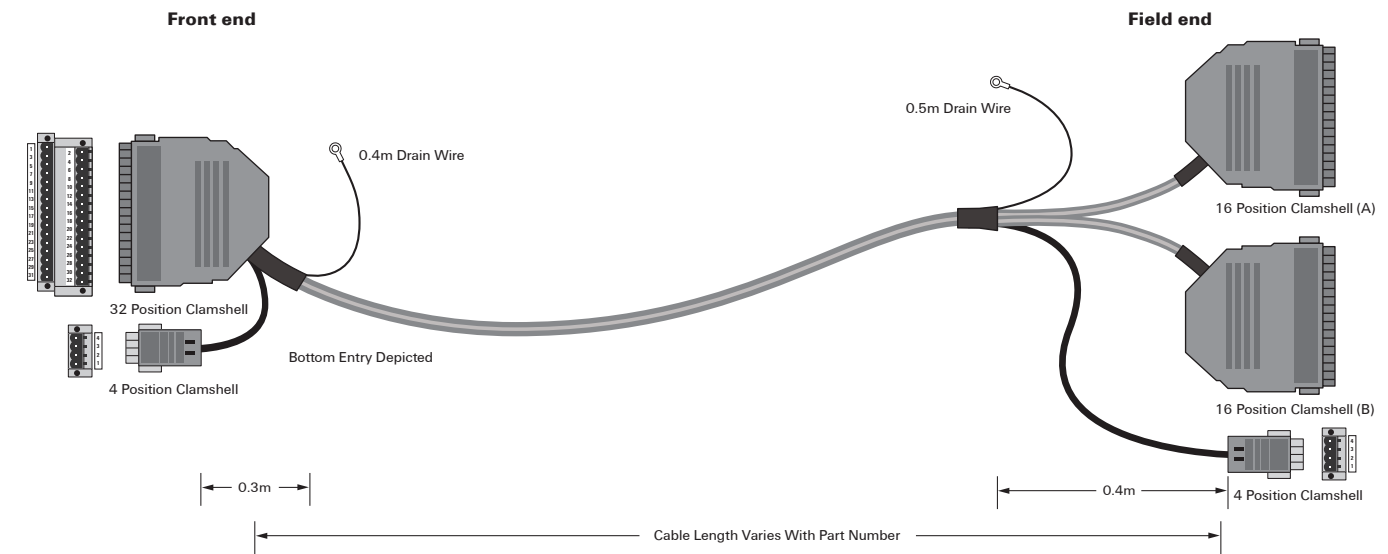
**Front View Clamshell Field End**



**Additional Information**

Use cable drawing MS-C32x-C26Xxx-xxx-xxx.  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

Cable Assembly



**32 Position CLAMSHELL**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	17	BLUE
2	BLACK/WHITE	18	BLUE / WHITE
3	BLACK / RED	19	BLUE / RED
4	BLACK / RED / WHITE	20	BLUE / BLACK
5	BLACK / RED / VIOLET	21	BLUE / WHITE / BLACK
6	WHITE	22	VIOLET
7	WHITE / RED	23	VIOLET / WHITE
8	WHITE / BLACK	24	VIOLET / BLACK
9	WHITE / RED / BLACK	25	VIOLET / ORANGE / BLK
10	WHITE / RED / VIOLET	26	VIOLET / BLK / WHITE
11	RED	27	ORANGE
12	RED / WHITE	28	ORANGE / RED
13	RED / BLACK	29	ORANGE / BLACK
14	RED / VIOLET	30	ORANGE / VIOLET
15	RED / WHITE / BLACK	31	ORANGE / WHITE / BLK
16	RED / BLACK / VIOLET	32	ORANGE / BLK / VIOLET

**16 Position CLAMSHELL (A)**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	9	WHITE / RED / BLACK
2	BLACK/WHITE	10	WHITE / RED / VIOLET
3	BLACK / RED	11	RED
4	BLACK / RED / WHITE	12	RED / WHITE
5	BLACK / RED / VIOLET	13	RED / BLACK
6	WHITE	14	RED / VIOLET
7	WHITE / RED	15	RED / WHITE / BLACK
8	WHITE / BLACK	16	RED / BLACK / VIOLET

**4 Position Connector CLAMSHELL**

PIN #	Insulation Color
1	BROWN
2	BROWN / WHITE
3	YELLOW
4	YELLOW / BLACK

**16 Position CLAMSHELL (B)**

PIN #	Insulation Color	PIN #	Insulation Color
17	BLUE	25	BLUE / WHITE / BLACK
18	BLUE / WHITE	26	VIOLET
19	BLUE / RED	27	VIOLET / WHITE
20	BLUE / BLACK	28	VIOLET / BLACK
21	VIOLET / ORANGE / BLK	29	ORANGE / BLACK
22	VIOLET / BLK / WHITE	30	ORANGE / VIOLET
23	ORANGE	31	ORANGE / WHITE / BLK
24	ORANGE / RED	32	ORANGE / BLK / VIOLET

**4 Position CLAMSHELL Connector**

PIN #	Insulation Color
1	BROWN
2	BROWN / WHITE
3	YELLOW
4	YELLOW / BLACK

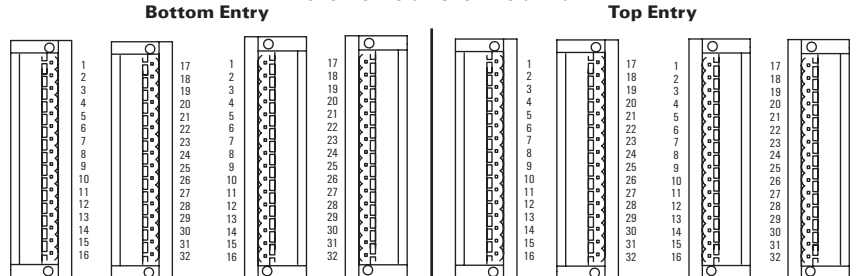
See Specification Table on page 47 or 50.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

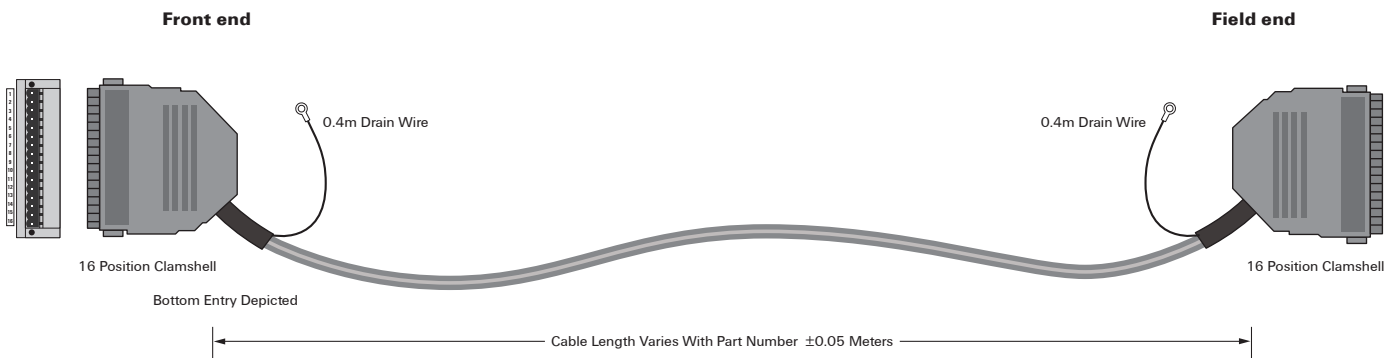
**Additional Information**

Use cable drawing MS-C2+xxx-C6+xxx-xxx-xxx.  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

**Front View Clamshell Field End**



### Cable Assembly



#### 16 Position CLAMSHELL (connected left to right)

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET

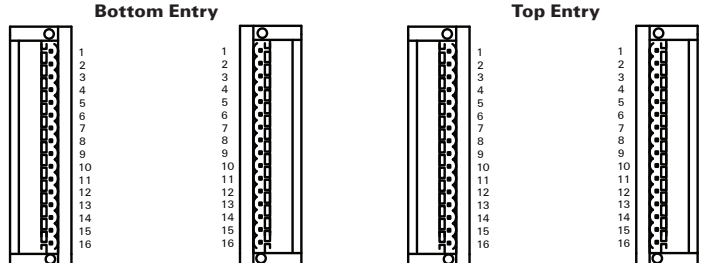
#### 16 Position CLAMSHELL (connected left to right)

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET

See Specification Table on page 46 or 49.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

#### Front View Clamshell Field End

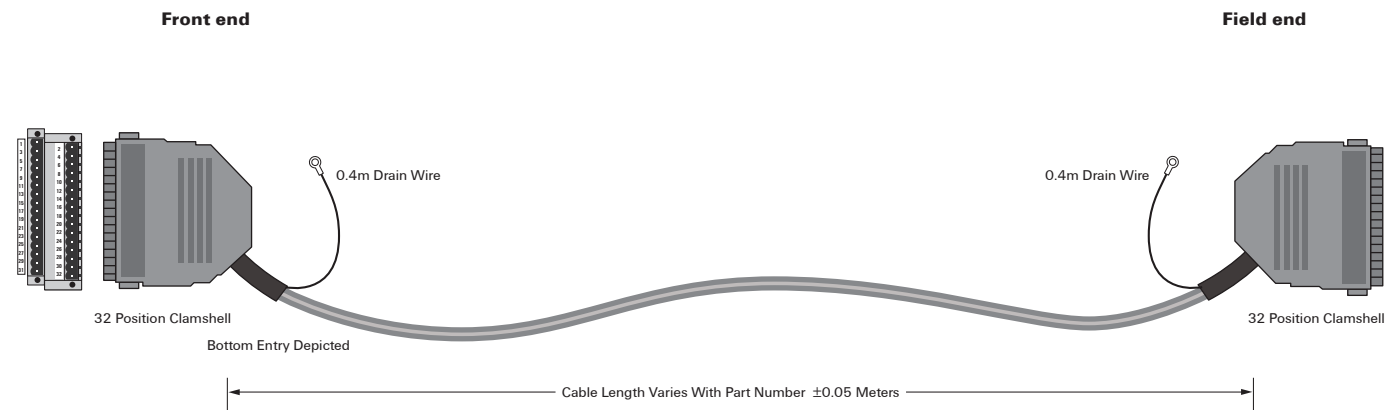


#### Additional Information

Use cable drawing MS-C16x-C16Xxx-xxx-xxx.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

Cable Assembly



32 Position CLAMSHELL Connector

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

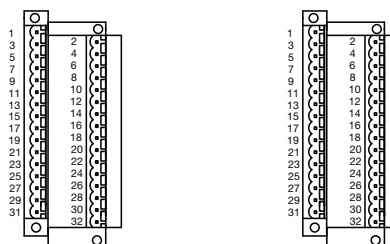
32 Position CLAMSHELL Connector

Lead #	Insulation Color	Lead #	Insulation Color
1	BLACK	2	BLACK / WHITE
3	BLACK / RED	4	BLACK / RED / WHITE
5	BLACK / RED / VIOLET	6	WHITE
7	WHITE / RED	8	WHITE / BLACK
9	WHITE / RED / BLACK	10	WHITE / RED / VIOLET
11	RED	12	RED / WHITE
13	RED / BLACK	14	RED / VIOLET
15	RED / WHITE / BLACK	16	RED / BLACK / VIOLET
17	BLUE	18	BLUE / WHITE
19	BLUE / RED	20	BLUE / BLACK
21	BLUE / WHITE / BLACK	22	VIOLET
23	VIOLET / WHITE	24	VIOLET / BLACK
25	VIOLET / ORANGE / BLACK	26	VIOLET / BLACK / WHITE
27	ORANGE	28	ORANGE / RED
29	ORANGE / BLACK	30	ORANGE / VIOLET
31	ORANGE / WHITE / BLACK	32	ORANGE / BLACK / VIOLET

See Specification Table on page 47 or 50.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

Front View Clamshell Field End

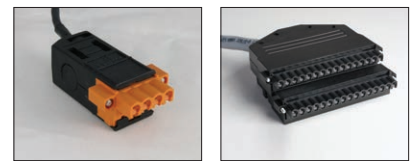
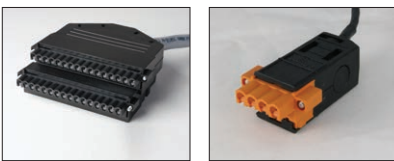
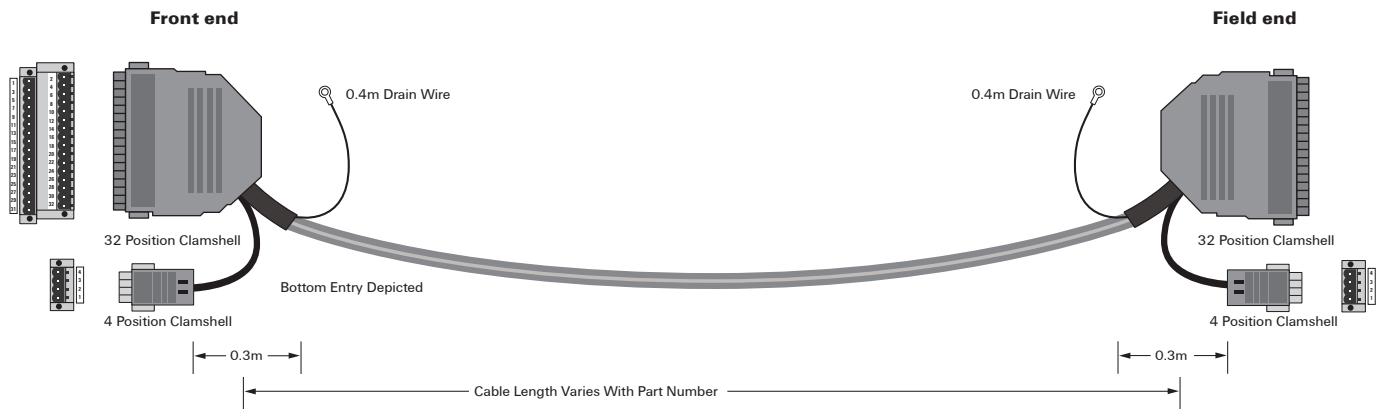


Additional Information

Use cable drawing MS-C32x-C32x-xxx-xxx.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

**Cable Assembly**



**32 Position CLAMSHELL Connector**

PIN #	Insulation Color	PIN #	Insulation Color
1	BLACK	17	BLUE
2	BLACK/WHITE	18	BLUE / WHITE
3	BLACK / RED	19	BLUE / RED
4	BLACK / RED/ WHITE	20	BLUE / BLACK
5	BLACK / RED / VIOLET	21	BLUE/WHITE/BLACK
6	WHITE	22	VIOLET
7	WHITE / RED	23	VIOLET / WHITE
8	WHITE / BLACK	24	VIOLET / BLACK
9	WHITE / RED / BLACK	25	VIOLET/ORANGE/BLACK
10	WHITE / RED / VIOLET	26	VIOLET/BLACK / WHITE
11	RED	27	ORANGE
12	RED/WHITE	28	ORANGE / RED
13	RED / BLACK	29	ORANGE / BLACK
14	RED / VIOLET	30	ORANGE / VIOLET
15	RED / WHITE / BLACK	31	ORANGE/WHITE/BLACK
16	RED / BLACK / VIOLET	32	ORANGE/BLK/VIOLET

**32 Position CLAMSHELL Connector**

Lead #	Insulation Color	Lead #	Insulation Color
1	BLACK	17	BLUE
2	BLACK/WHITE	18	BLUE / WHITE
3	BLACK / RED	19	BLUE / RED
4	BLACK / RED/ WHITE	20	BLUE / BLACK
5	BLACK / RED / VIOLET	21	BLUE/WHITE/BLACK
6	WHITE	22	VIOLET
7	WHITE / RED	23	VIOLET / WHITE
8	WHITE / BLACK	24	VIOLET / BLACK
9	WHITE / RED / BLACK	25	VIOLET/ORANGE/BLACK
10	WHITE / RED / VIOLET	26	VIOLET/BLACK / WHITE
11	RED	27	ORANGE
12	RED/WHITE	28	ORANGE / RED
13	RED / BLACK	29	ORANGE / BLACK
14	RED / VIOLET	30	ORANGE / VIOLET
15	RED / WHITE / BLACK	31	ORANGE/WHITE/BLACK
16	RED / BLACK / VIOLET	32	ORANGE/BLK/VIOLET

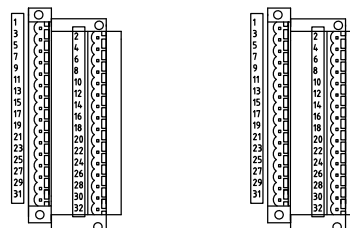
**4 Position CLAMSHELL Connector**

PIN #	Insulation Color
1	BROWN
2	BROWN / WHITE
3	YELLOW
4	YELLOW / BLACK

**4 Position CLAMSHELL Connector**

PIN #	Insulation Color
1	BROWN
2	BROWN / WHITE
3	YELLOW
4	YELLOW / BLACK

**Front View Clamshell Field End**



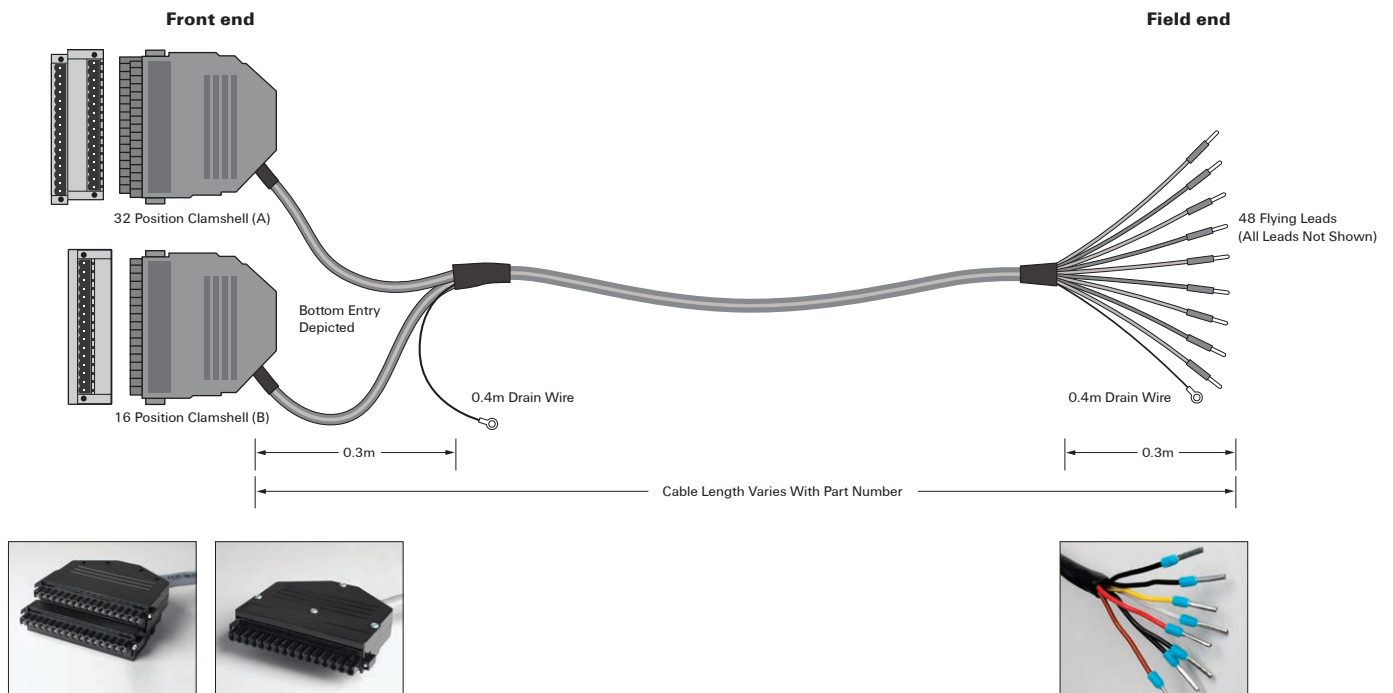
See Specification Table on page 47 or 50.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

**Additional Information**

Use cable drawing MS-C2+xxx-C2+xxx-xxx-xxx.  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

Cable Assembly



Data Guide TRIAD		32 Position CLAMSHELL (A)	16 Position CLAMSHELL (B)
PAIR	Insulation Color	PIN #	PIN #
1	BLACK	1	-
1	BLACK / WHITE	2	-
1	BLACK / YELLOW	-	16
2	BLACK / RED	3	-
2	BLACK / RED / WHITE	4	-
2	BLACK / RED / YELLOW	-	15
3	BLACK / BLUE	5	-
3	BLACK / BLUE / WHITE	6	-
3	BLACK / BLUE / YELLOW	-	14
4	BLACK / VIOLET	7	-
4	BLACK / VIOLET / WHITE	8	-
4	BLACK / VIOLET / YELLOW	-	13
5	BLACK / ORANGE	9	-
5	BLACK / ORANGE / WHITE	10	-
5	BLACK / ORANGE / YELLOW	-	12
6	RED	11	-
6	RED / WHITE	12	-
6	RED / YELLOW	-	11
7	RED / BLUE	13	-
7	RED / BLUE / WHITE	14	-
7	RED / BLUE / YELLOW	-	10
8	RED / VIOLET	15	-
8	RED / VIOLET / WHITE	16	-
8	RED / VIOLET / YELLOW	-	9
9	RED / ORANGE	17	-
9	RED / ORANGE / WHITE	18	-
9	RED / ORANGE / YELLOW	-	8
10	RED / BROWN	19	-
10	RED / BROWN / WHITE	20	-
10	RED / BROWN / YELLOW	-	7
11	BLUE	21	-
11	BLUE / WHITE	22	-
11	BLUE / YELLOW	-	6
12	BLUE / VIOLET	23	-
12	BLUE / VIOLET / WHITE	24	-
12	BLUE / VIOLET / YELLOW	-	5
13	BLUE / ORANGE	25	-
13	BLUE / ORANGE / WHITE	26	-
13	BLUE / ORANGE / YELLOW	-	4
14	BLUE / BROWN	27	-
14	BLUE / BROWN / WHITE	28	-
14	BLUE / BROWN / YELLOW	-	3
15	VIOLET	29	-
15	VIOLET / WHITE	30	-
15	VIOLET / YELLOW	-	2
16	VIOLET / ORANGE	31	-
16	VIOLET / ORANGE / WHITE	32	-
16	VIOLET / ORANGE / YELLOW	-	1

See Specification Table on page 51.

Additional cable lengths available. Contact your Weidmüller Sales Representative.

Data Guide TRIAD

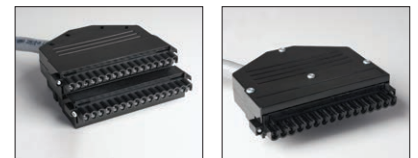
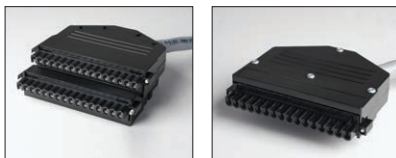
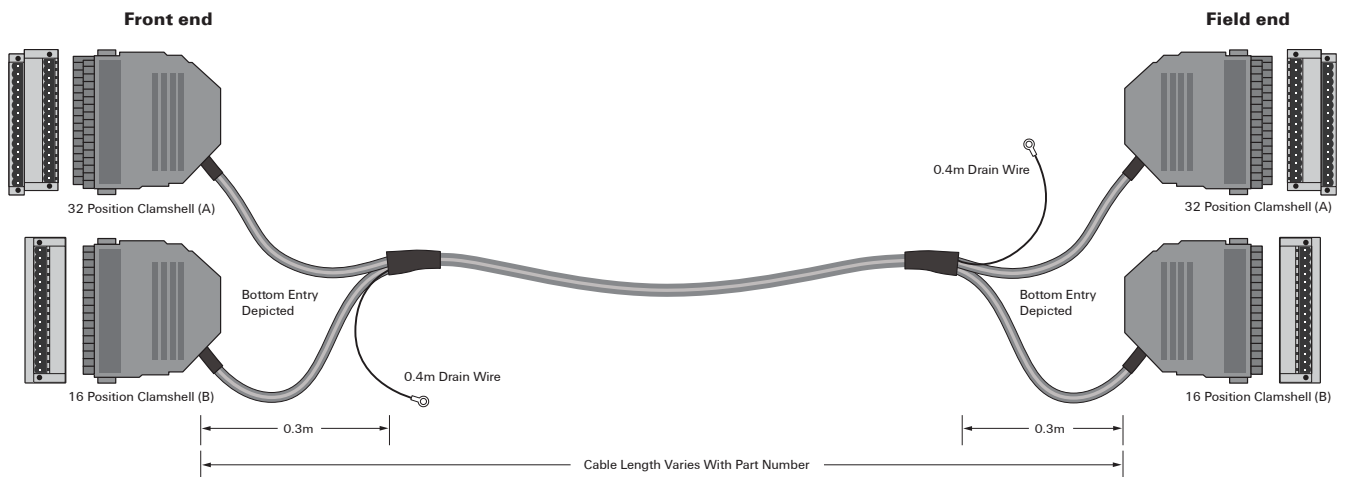
PAIR	Insulation Color	PIN #
1	BLACK	1
1	BLACK / WHITE	2
1	BLACK / YELLOW	16
2	BLACK / RED	3
2	BLACK / RED / WHITE	4
2	BLACK / RED / YELLOW	15
3	BLACK / BLUE	5
3	BLACK / BLUE / WHITE	6
3	BLACK / BLUE / YELLOW	14
4	BLACK / VIOLET	7
4	BLACK / VIOLET / WHITE	8
4	BLACK / VIOLET / YELLOW	13
5	BLACK / ORANGE	9
5	BLACK / ORANGE / WHITE	10
5	BLACK / ORANGE / YELLOW	12
6	RED	11
6	RED / WHITE	12
6	RED / YELLOW	11
7	RED / BLUE	13
7	RED / BLUE / WHITE	14
7	RED / BLUE / YELLOW	10
8	RED / VIOLET	15
8	RED / VIOLET / WHITE	16
8	RED / VIOLET / YELLOW	9
9	RED / ORANGE	17
9	RED / ORANGE / WHITE	18
9	RED / ORANGE / YELLOW	8
10	RED / BROWN	19
10	RED / BROWN / WHITE	20
10	RED / BROWN / YELLOW	7
11	BLUE	21
11	BLUE / WHITE	22
11	BLUE / YELLOW	6
12	BLUE / VIOLET	23
12	BLUE / VIOLET / WHITE	24
12	BLUE / VIOLET / YELLOW	5
13	BLUE / ORANGE	25
13	BLUE / ORANGE / WHITE	26
13	BLUE / ORANGE / YELLOW	4
14	BLUE / BROWN	27
14	BLUE / BROWN / WHITE	28
14	BLUE / BROWN / YELLOW	3
15	VIOLET	29
15	VIOLET / WHITE	30
15	VIOLET / YELLOW	2
16	VIOLET / ORANGE	31
16	VIOLET / ORANGE / WHITE	32
16	VIOLET / ORANGE / YELLOW	1

Additional Information

Use cable drawing MS-C48xxx-xFLXxx-xxx-xxx.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

Cable Assembly



Data Guide TRIAD			
PAIR	Insulation Color	32 Position CLAMSHELL (A) PIN #	16 Position CLAMSHELL (B) PIN #
1	BLACK	1	-
1	BLACK / WHITE	2	-
1	BLACK / YELLOW	-	16
2	BLACK / RED	3	-
2	BLACK / RED / WHITE	4	-
2	BLACK / RED / YELLOW	-	15
3	BLACK / BLUE	5	-
3	BLACK / BLUE / WHITE	6	-
3	BLACK / BLUE / YELLOW	-	14
4	BLACK / VIOLET	7	-
4	BLACK / VIOLET / WHITE	8	-
4	BLACK / VIOLET / YELLOW	-	13
5	BLACK / ORANGE	9	-
5	BLACK / ORANGE / WHITE	10	-
5	BLACK / ORANGE / YELLOW	-	12
6	RED	11	-
6	RED / WHITE	12	-
6	RED / YELLOW	-	11
7	RED / BLUE	13	-
7	RED / BLUE / WHITE	14	-
7	RED / BLUE / YELLOW	-	10
8	RED / VIOLET	15	-
8	RED / VIOLET / WHITE	16	-
8	RED / VIOLET / YELLOW	-	9
9	RED / ORANGE	17	-
9	RED / ORANGE / WHITE	18	-
9	RED / ORANGE / YELLOW	-	8
10	RED / BROWN	19	-
10	RED / BROWN / WHITE	-	-
10	RED / BROWN / YELLOW	-	7
11	BLUE	21	-
11	BLUE / WHITE	22	-
11	BLUE / YELLOW	-	6
12	BLUE / VIOLET	23	-
12	BLUE / VIOLET / WHITE	24	-
12	BLUE / VIOLET / YELLOW	-	5
13	BLUE / ORANGE	25	-
13	BLUE / ORANGE / WHITE	26	-
13	BLUE / ORANGE / YELLOW	-	4
14	BLUE / BROWN	27	-
14	BLUE / BROWN / WHITE	28	-
14	BLUE / BROWN / YELLOW	-	3
15	VIOLET	29	-
15	VIOLET / WHITE	30	-
15	VIOLET / YELLOW	-	2
16	VIOLET / ORANGE	31	-
16	VIOLET / ORANGE / WHITE	32	-
16	VIOLET / ORANGE / YELLOW	-	1

Data Guide TRIAD			
PAIR	Insulation Color	32 Position CLAMSHELL (A) PIN #	16 Position CLAMSHELL (B) PIN #
1	BLACK	1	-
1	BLACK / WHITE	2	-
1	BLACK / YELLOW	-	16
2	BLACK / RED	3	-
2	BLACK / RED / WHITE	4	-
2	BLACK / RED / YELLOW	-	15
3	BLACK / BLUE	5	-
3	BLACK / BLUE / WHITE	6	-
3	BLACK / BLUE / YELLOW	-	14
4	BLACK / VIOLET	7	-
4	BLACK / VIOLET / WHITE	8	-
4	BLACK / VIOLET / YELLOW	-	13
5	BLACK / ORANGE	9	-
5	BLACK / ORANGE / WHITE	10	-
5	BLACK / ORANGE / YELLOW	-	12
6	RED	11	-
6	RED / WHITE	12	-
6	RED / YELLOW	-	11
7	RED / BLUE	13	-
7	RED / BLUE / WHITE	14	-
7	RED / BLUE / YELLOW	-	10
8	RED / VIOLET	15	-
8	RED / VIOLET / WHITE	16	-
8	RED / VIOLET / YELLOW	-	9
9	RED / ORANGE	17	-
9	RED / ORANGE / WHITE	18	-
9	RED / ORANGE / YELLOW	-	8
10	RED / BROWN	19	-
10	RED / BROWN / WHITE	-	-
10	RED / BROWN / YELLOW	-	7
11	BLUE	21	-
11	BLUE / WHITE	22	-
11	BLUE / YELLOW	-	6
12	BLUE / VIOLET	23	-
12	BLUE / VIOLET / WHITE	24	-
12	BLUE / VIOLET / YELLOW	-	5
13	BLUE / ORANGE	25	-
13	BLUE / ORANGE / WHITE	26	-
13	BLUE / ORANGE / YELLOW	-	4
14	BLUE / BROWN	27	-
14	BLUE / BROWN / WHITE	28	-
14	BLUE / BROWN / YELLOW	-	3
15	VIOLET	29	-
15	VIOLET / WHITE	30	-
15	VIOLET / YELLOW	-	2
16	VIOLET / ORANGE	31	-
16	VIOLET / ORANGE / WHITE	32	-
16	VIOLET / ORANGE / YELLOW	-	1

See Specification Table on page 51.

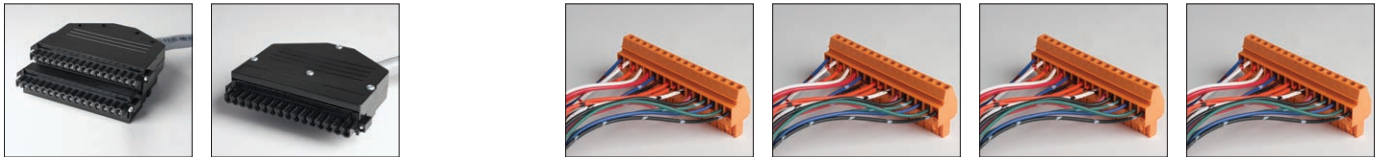
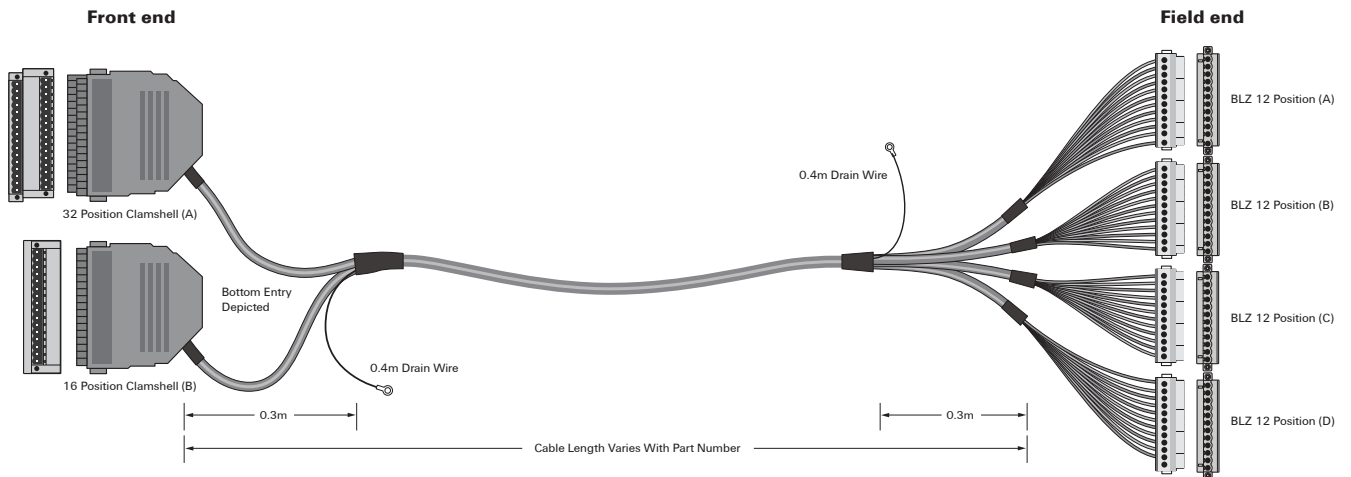
Additional cable lengths available. Contact your Weidmüller Sales Representative.

Additional Information

Use cable drawing MS-C48xxx-C48xx-xxx-xxx.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

Cable Assembly



**Data Guide TRIAD**

PAIR	Insulation Color	32 Position CLAMSHELL (A) PIN #	16 Position CLAMSHELL (B) PIN #
1	BLACK	1	-
1	BLACK / WHITE	2	-
1	BLACK / YELLOW	-	16
2	BLACK / RED	3	-
2	BLACK / RED / WHITE	4	-
2	BLACK / RED / YELLOW	-	15
3	BLACK / BLUE	5	-
3	BLACK / BLUE / WHITE	6	-
3	BLACK / BLUE / YELLOW	-	14
4	BLACK / VIOLET	7	-
4	BLACK / VIOLET / WHITE	8	-
4	BLACK / VIOLET / YELLOW	-	13
5	BLACK / ORANGE	9	-
5	BLACK / ORANGE / WHITE	10	-
5	BLACK / ORANGE / YELLOW	-	12
6	RED	11	-
6	RED / WHITE	12	-
6	RED / YELLOW	-	11
7	RED / BLUE	13	-
7	RED / BLUE / WHITE	14	-
7	RED / BLUE / YELLOW	-	10
8	RED / VIOLET	15	-
8	RED / VIOLET / WHITE	16	-
8	RED / VIOLET / YELLOW	-	9
9	RED / ORANGE	17	-
9	RED / ORANGE / WHITE	18	-
9	RED / ORANGE / YELLOW	-	8
10	RED / BROWN	19	-
10	RED / BROWN / WHITE	20	-
10	RED / BROWN / YELLOW	-	7
11	BLUE	21	-
11	BLUE / WHITE	22	-
11	BLUE / YELLOW	-	6
12	BLUE / VIOLET	23	-
12	BLUE / VIOLET / WHITE	24	-
12	BLUE / VIOLET / YELLOW	-	5
13	BLUE / ORANGE	25	-
13	BLUE / ORANGE / WHITE	26	-
13	BLUE / ORANGE / YELLOW	-	4
14	BLUE / BROWN	27	-
14	BLUE / BROWN / WHITE	28	-
14	BLUE / BROWN / YELLOW	-	3
15	VIOLET	29	-
15	VIOLET / WHITE	30	-
15	VIOLET / YELLOW	-	2
16	VIOLET / ORANGE	31	-
16	VIOLET / ORANGE / WHITE	32	-
16	VIOLET / ORANGE / YELLOW	-	1

**Data Guide TRIAD**

PAIR	Insulation Color	BLZ (A)	BLZ (B)	BLZ (C)	BLZ (D)
1	BLACK	1	-	-	-
1	BLACK / WHITE	2	-	-	-
1	BLACK / YELLOW	16	-	-	-
2	BLACK / RED	3	-	-	-
2	BLACK / RED / WHITE	4	-	-	-
2	BLACK / RED / YELLOW	15	-	-	-
3	BLACK / BLUE	5	-	-	-
3	BLACK / BLUE / WHITE	6	-	-	-
3	BLACK / BLUE / YELLOW	14	-	-	-
4	BLACK / VIOLET	7	-	-	-
4	BLACK / VIOLET / WHITE	8	-	-	-
4	BLACK / VIOLET / YELLOW	13	-	-	-
5	BLACK / ORANGE	-	9	-	-
5	BLACK / ORANGE / WHITE	-	10	-	-
5	BLACK / ORANGE / YELLOW	-	12	-	-
6	RED	-	11	-	-
6	RED / WHITE	-	12	-	-
6	RED / YELLOW	-	11	-	-
7	RED / BLUE	-	13	-	-
7	RED / BLUE / WHITE	-	14	-	-
7	RED / BLUE / YELLOW	-	10	-	-
8	RED / VIOLET	-	15	-	-
8	RED / VIOLET / WHITE	-	16	-	-
8	RED / VIOLET / YELLOW	-	9	-	-
9	RED / ORANGE	-	-	17	-
9	RED / ORANGE / WHITE	-	-	18	-
9	RED / ORANGE / YELLOW	-	-	8	-
10	RED / BROWN	-	-	19	-
10	RED / BROWN / WHITE	-	-	20	-
10	RED / BROWN / YELLOW	-	-	7	-
11	BLUE	-	-	21	-
11	BLUE / WHITE	-	-	22	-
11	BLUE / YELLOW	-	-	6	-
12	BLUE / VIOLET	-	-	23	-
12	BLUE / VIOLET / WHITE	-	-	24	-
12	BLUE / VIOLET / YELLOW	-	-	5	-
13	BLUE / ORANGE	-	-	-	25
13	BLUE / ORANGE / WHITE	-	-	-	26
13	BLUE / ORANGE / YELLOW	-	-	-	4
14	BLUE / BROWN	-	-	-	27
14	BLUE / BROWN / WHITE	-	-	-	28
14	BLUE / BROWN / YELLOW	-	-	-	3
15	VIOLET	-	-	-	29
15	VIOLET / WHITE	-	-	-	30
15	VIOLET / YELLOW	-	-	-	2
16	VIOLET / ORANGE	-	-	-	31
16	VIOLET / ORANGE / WHITE	-	-	-	32
16	VIOLET / ORANGE / YELLOW	-	-	-	1

See Specification Table on page 51.

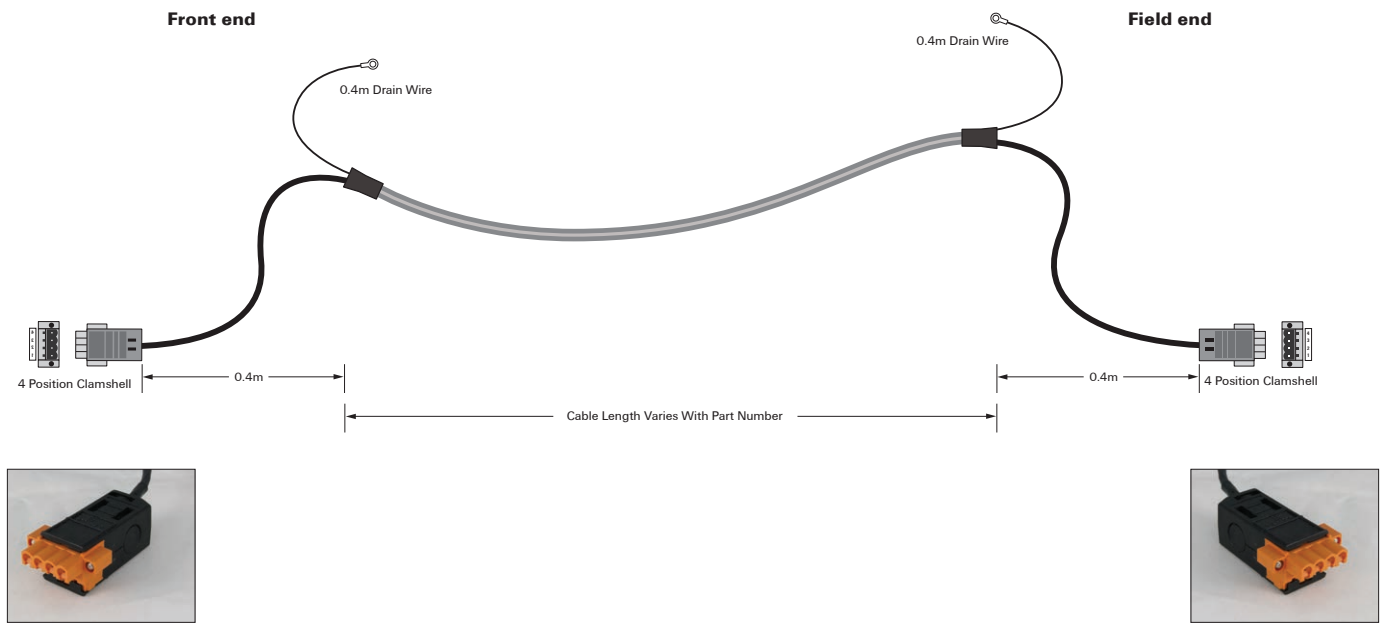
Additional cable lengths available. Contact your Weidmüller Sales Representative.

**Additional Information**

Use cable drawing MS-C48xxx-B42xx-xxx-xxx.

To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

### Cable Assembly



#### 4 Position CLAMSHELL Connector

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

See Specification Table on page 53.

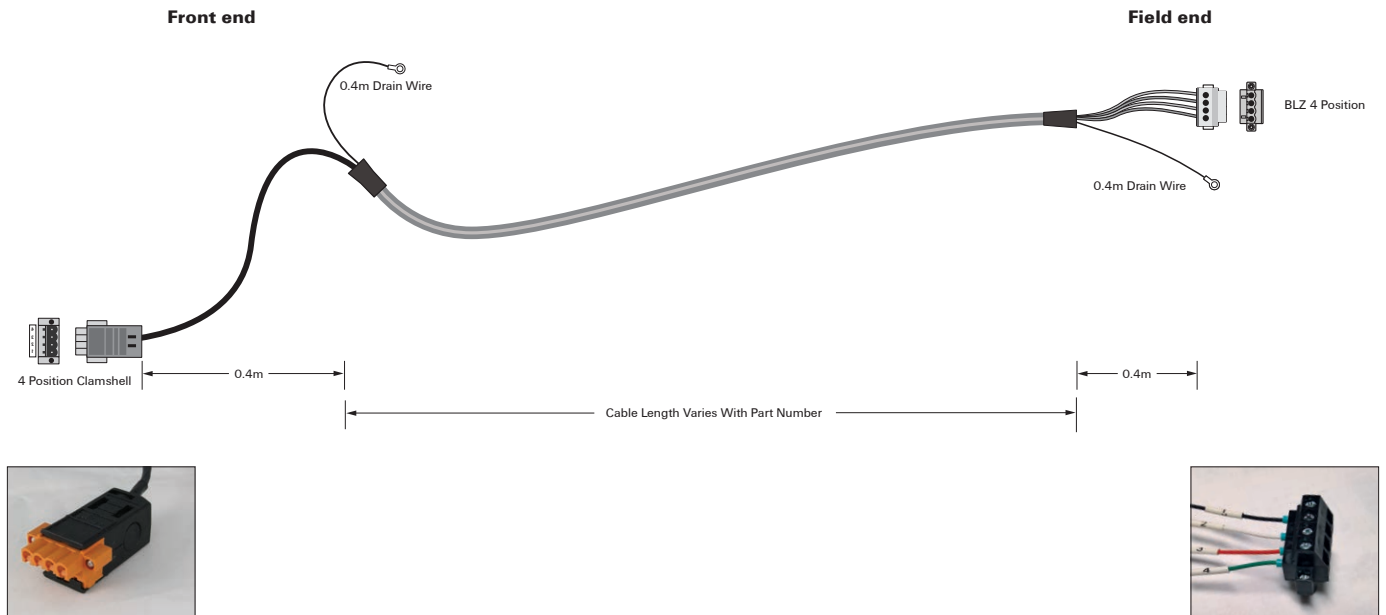
Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

#### 4 Position CLAMSHELL Connector

PIN #	Insulation Color
1	See Specification Tables
2	for 22AWG and 18AWG
3	Color Codes
4	

#### Additional Information

Use cable drawing MS-C4-C4-xxx-xxx  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).



#### 4 Position CLAMSHELL Connector

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

See Specification Table on page 53.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

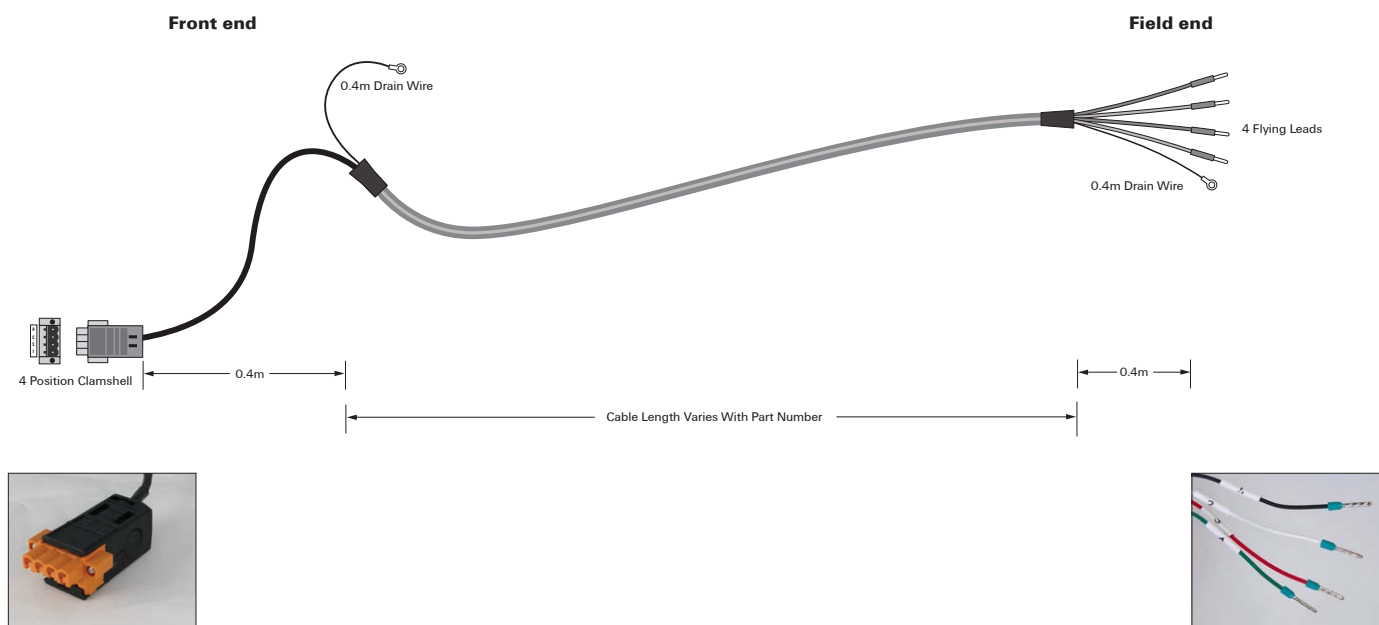
#### 4 Position BLZ Connector

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

#### Additional Information

Use cable drawing MS-C4-B4-xxx-xxx  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

**Cable Assembly**



**4 Position CLAMSHELL Connector**

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

See Specification Table on page 53.

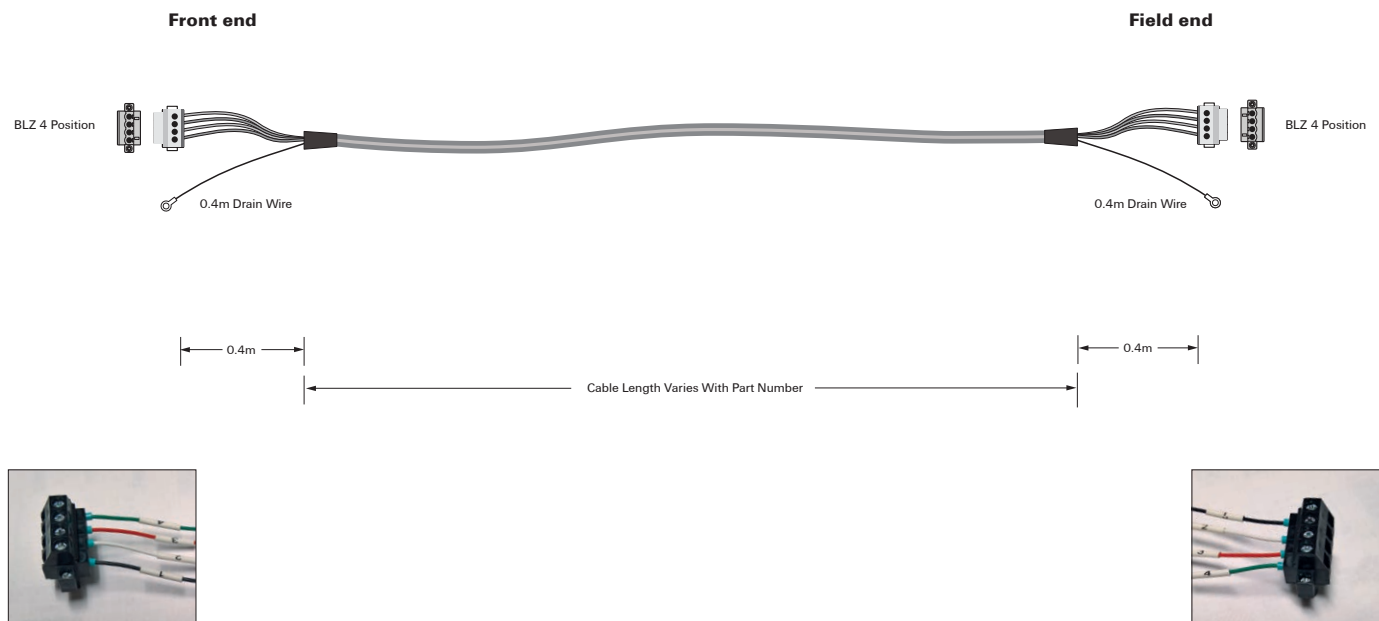
Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

**4 Flying Leads from CLAMSHELL Connector**

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

**Additional Information**

Use cable drawing MS-C4-XFLxx-xxx-xxx  
For the field end of this cable, the following leads are available: ferruled flying, blunt flying and tinned flying.  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).



**4 Position BLZ Connector**

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

See Specification Table on page 53.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

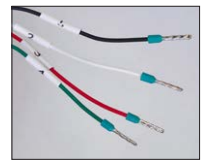
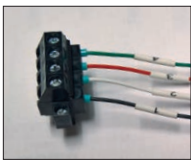
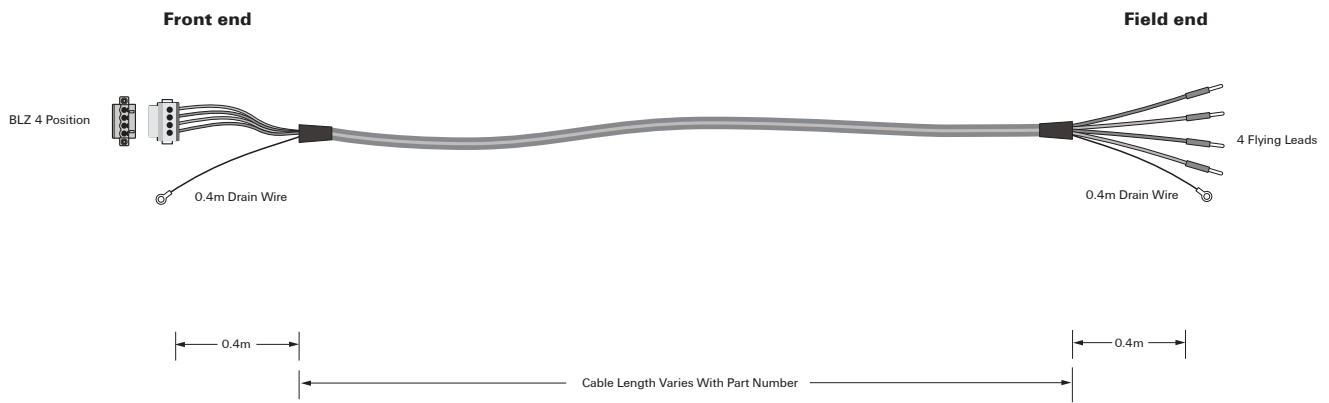
**4 Position BLZ Connector**

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

**Additional Information**

Use cable drawing MS-B4-B4-xxx-xxx  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

## Cable Assembly



### 4 Position BLZ Connector

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

See Specification Table on page 53.

Additional cable lengths available.  
Contact your Weidmüller Sales Representative.

### 4 Flying Leads from BLZ Connector

PIN #	Insulation Color
1	See Specification Tables
2	for 22 AWG and 18 AWG
3	Color Codes
4	

### Additional Information

Use cable drawing MS-B4-xxx-xxx-xxx  
To custom build an engineered marshalling cable (in three quick steps), use the Marshalling Cable Configurator at [www.weidmuller.com/marshalling](http://www.weidmuller.com/marshalling).

**Alpha Wire**  
**Customer Specification**  
**Part Number: 5129C**

**Available  
 Upon Request**



**Construction**

				<b>Diameters (in)</b>	
1) Component 1		9 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.050	
(1) Color Code		Alpha Wire Color Code B			
<b>Pair</b>	<b>Color</b>	<b>Pair</b>	<b>Color</b>	<b>Pair</b>	<b>Color</b>
1	WHITE-BLACK	4	WHITE-ORANGE	7	WHITE-BLUE
2	WHITE-BROWN	5	WHITE-YELLOW	8	WHITE-VIOLET
3	WHITE-RED	6	WHITE-GREEN	9	WHITE-SLATE
c) Pair		2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)			
2) Cable Assembly		9 Components Cabled			
a) Twists:		3.4 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG TC			
b) Braid		TC,70% Coverage, Min.			
4) Jacket		0.032" Wall, Nom.,PVC		0.396 (0.416 Max.)	
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE- P/N 5129C 9PR 22 AWG			
		XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM			
		2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4			
		CE ROHS (SEQ FOOTAGE)			
		* = Factory Code			
<b>Note</b>		Product may have c(UL) or CSA markings depending upon plant of manufacture.			

**Applicable Specifications**

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	CM	105°C
2) CSA International	VW-1	
	CMG	105°C
3) CE:	FT4	
	EU Low Voltage Directive 2006/95/EC	

**Environmental**

1) CE: EU Directive 2011/65/EU(RoHS2):	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
2) REACH Regulation (EC 1907/2006):	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**Properties**

<b>Physical &amp; Mechanical Properties</b>	
1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	111 Lbs. Maximum
4) Sunlight Resistance	Yes
<b>Electrical Properties (For Engineering purposes only)</b>	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	24.9 pF/ft @1 kHz, Nominal
3) Ground Capacitance	45 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	77 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	16.7 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	2.25 Ω/1000ft @20°C, Nominal

**Other**

<b>Packaging</b>	<b>Flange x Traverse x Barrel (inches)</b>
a) 1000 FT	20 x 11 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk (Made-to-order)	
<i>(Spool dimensions may vary slightly)</i>	



**Alpha Wire  
Customer Specification  
Part Number: 5129/19C**

**Available  
Upon Request**

**Construction**

		<b>Diameters (in)</b>			
1) Component 1		19 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC			
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid			
(1) Color Code		Alpha Wire Color Code B			
<b>Pair</b>	<b>Color</b>	<b>Pair</b>	<b>Color</b>	<b>Pair</b>	<b>Color</b>
1	WHITE-BLACK	8	WHITE-VIOLET	15	BLACK-BLUE
2	WHITE-BROWN	9	WHITE-SLATE	16	BLACK-VIOLET
3	WHITE-RED	10	BLACK-BROWN	17	BLACK-SLATE
4	WHITE-ORANGE	11	BLACK-RED	18	BROWN-RED
5	WHITE-YELLOW	12	BLACK-ORANGE	19	BROWN-ORANGE
6	WHITE-GREEN	13	BLACK-YELLOW		
7	WHITE-BLUE	14	BLACK-GREEN		
c) Pair		2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)			
2) Cable Assembly		19 Components Cabled			
a) Twists:		2.5 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG TC			
b) Braid		TC, 70% Coverage, Min.			
4) Jacket		0.032" Wall, Nom., PVC			
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE* P/N 5129/19C 19PR 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 80C 300V OR AWM 21894 105C 300V SUN RES 60C OIL VW-1 — LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code			
<b>Note</b>		Product may have c(UL) or CSA markings depending upon plant of manufacture.			

**Applicable Specifications**

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 21894	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	60C OIL	
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	CM	105°C
	VW-1	
2) CSA International	CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) CE:	EU Low Voltage Directive 2006/95/EC	

**Environmental**

1) CE: EU Directive 2011/65/EU(RoHS2):	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
2) REACH Regulation (EC 1907/2006):	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**Properties**

<b>Physical &amp; Mechanical Properties</b>	
1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	223 Lbs, Maximum
4) Sunlight Resistance	Yes
<b>Electrical Properties (For Engineering purposes only)</b>	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	24.9 pf/ft @1 kHz, Nominal
3) Ground Capacitance	45 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	77 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	16.7 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	1.75 Ω/1000ft @20°C, Nominal

**Other**

<b>Packaging</b>	<b>Flange x Traverse x Barrel (inches)</b>
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	20 x 11 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk (Made-to-order)	(Spool dimensions may vary slightly)

**EU/China RoHS Certificate of Compliance**

To Whom It May Concern:  
 Alpha Wire Part Number: 5129C  
 5129C, RoHS-Compliant Commencing  
 with 8/1/2005 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive’s scope. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS “Marking for Control of Pollution by Electronic Information Products” standard SJ/T 11364-2006.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm )
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire’s knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA 4/23/2013

**www.alphawire.com**

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 | Tel: 1-800-52 ALPHA (25742)

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**EU/China RoHS Certificate of Compliance**

To Whom It May Concern:  
 Alpha Wire Part Number: 5129/19C  
 5129/19C, RoHS-Compliant Commencing  
 with 8/1/2005 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive’s scope. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS “Marking for Control of Pollution by Electronic Information Products” standard SJ/T 11364-2006.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm )
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire’s knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA 1/10/2014



**DGC - Data Guide Cable  
Specification  
8 Pair - 18 AWG**

**8 Pair 18 AWG PVC Insulated Cable  
Overall Foil Shielded with PVC Jacket  
UL and CSA Rated 80C 300VOLTS**

Conductor	18 AWG 16 Strands Tinned Annealed Copper in Accordance with ASTM B-3 and B-8
Dielectric	.011" Nominal Wall Thickness PVC to Diameter of .068"
Color Code	As Indicated
Twist Assembly	Lay Length: 2-1/2" Nominal Left Hand
Cable Assembly	Lay Length: 5- 1/2" Nominal Left Hand Direction
	Filler: Polypropylene Required in Core Area
	Foil Shield: .0012" Nominal Thickness Aluminum/Polyester Tape, Foil Facing Out
	Drain: 18 AWG 16 Strand Tinned Copper over Foil Shield
Jacket	Material: Thermoplastic PVC
	Color: Gray
	Wall Thickness: .032" Nominal
	Finished Cable Diameter: .425" Nominal
Cable Identification	Type: Surface Print on Jacket
	Ink Color: Black
	Legend: *8PR 18A E90298  TYPE CM 105C OR AWM 2464 80C 300V VW-1 - LL91737 CSA TYPE CMG 105C FT4 - CE ROHS
Mechanical	Operating Temperature: -25C to +80C
	Min. Bend Radius: 7"

D.G. Part Number	12F7-2
Prepared By: KAM	
Reviewed By: WJD	

**Color Code**

Pairs	Colors
1	BLACK & BLACK/WHITE
2	BLACK/RED & BLACK/RED/WHITE
3	BLACK/RED/ VIOLET & WHITE
4	WHITE/RED & WHITE/BLACK
5	WHITE/RED/BLACK & WHITE/RED/VIOLET
6	RED & RED/WHITE
7	RED/BLACK & RED/VIOLET
8	RED/WHITE/BLACK & RED/BLACK/VIOLET

**Agency Approval**

UL TYPE CM 105C
UL AWM 2464 80C 300VOLTS VW-1
CSA TYPE CMG 105C
CE: EU LOW VOLTAGE DIRECTIVE 2006/95/EC
RoHS
IEEE 1202 (FT4) FLAME RATED
DESIGNED TO MEET IEC 60332-1, -2 FLAME RATINGS

**DGC - Data Guide Cable Specification**  
**18 Pair - 22 AWG**



**18 Pair 22 AWG PVC Insulated Cable**  
**Foil and Braid Shielded with PVC Jacket**  
**UL and CSA Rated**

Conductor	22 AWG 7 Strands Tinned Annealed Copper in Accordance with ASTM B-3 and B-8
Dielectric	.010" Nominal Wall Thickness PVC to Diameter of .050"
Color Code	As Indicated
Twist Assembly	Lay Length: 1-1/2" Nominal Left Hand
Cable Assembly	Lay Length: 6" Nominal Left Hand Direction
	Filler: Polypropylene Required in Core Area
	Foil Shield: .0012" Nominal Thickness Aluminum/Polyester Tape, Foil Facing Out
	Drain: 22 AWG 7 Strand Tinned Copper over Foil Shield
Braid	Material: 36 AWG Tinned Copper
	Coverage: 70% Nominal
Jacket	Material: Thermoplastic PVC
	Color: Gray
	Wall Thickness: .032" Nominal
	Finished Cable Diameter: .498" Nominal
Cable Identification	Type: Surface Print on Jacket
	Ink Color: Black
	Legend: "18PR 22A E123820 22 AWG TYPE CM (UL) 105C OR AWM 2464 - - LL91737 CSA TYPE CMG 105C FT4 CE ROHS"
Mechanical	Operating Temperature: -25C to +105C
	Min. Bend Radius: 5-3/4"

D.G. Part Number	13K16-8
Prepared By:	KAM
Reviewed By:	WJD

**Color Code**

Pair	Color	Pair	Color
1	Black & Black/White	10	Blue/Red & Blue/Black
2	Black/Red & Black/Red/White	11	Blue/White/Black & Purple
3	Black/Red/Purple & White	12	Purple/White & Purple/Black
4	White/Red & White/Black	13	Purple/Orange/Black & Purple/Black/White
5	White/Red/Black & White/Red/Purple	14	Orange & Orange/Red
6	Red & Red/White	15	Orange/Black & Orange/Purple
7	Red/Black & Red/Purple	16	Orange/White/Black & Orange/Black/Purple
8	Red/White/Black & Red/Black/Purple	17	Brown & Brown/White
9	Blue & Blue/White	18	Yellow & Yellow/Black

**Agency Approval**

UL TYPE CM 105C
UL AWM 2464 80C 300VOLTS VW-1
CSA TYPE CMG 105C
CE: EU LOW VOLTAGE DIRECTIVE 2006/95/EC
RoHS
IEEE 1202 (FT4) FLAME RATED
DESIGNED TO MEET IEC 60332-1, -2 FLAME RATINGS

**DGC - Data Guide Cable Specification**  
**18 Pair - 18 AWG**

**18 Pair 18 AWG PVC Insulated Cable**  
**Overall Foil Shielded with PVC Jacket**  
**UL and CSA Rated 80C 300VOLTS**

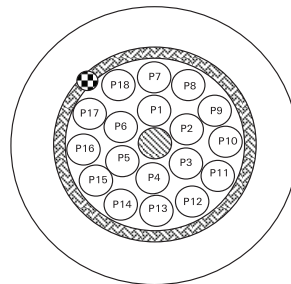
Conductor	18 AWG 16 Strands Tinned Annealed Copper in Accordance with ASTM B-3 and B-8
Dielectric	.010" Nominal Wall Thickness PVC to Diameter of .066"
Color Code	As Indicated
Twist Assembly	Lay Length: 2-1/2" Nominal Left Hand
Cable Assembly	Lay Length: 8" Nominal Left Hand Direction
	Filler: Polypropylene Required in Core Area
	Foil Shield: .0012" Nominal Thickness Aluminum/Polyester Tape, Foil Facing Out
	Drain: 18 AWG 16 Strand Tinned Copper over Foil Shield
Jacket	Material: Thermoplastic PVC
	Color: Gray
	Wall Thickness: .032" Nominal
	Finished Cable Diameter: .600" Nominal
Cable Identification	Type: Surface Print on Jacket
	Ink Color: Black
	Legend: "18PR 18A E90298 18 TYPE CM 105C OR AWM 2464 80C 300V VW-1 - LL91737 CSA TYPE CMG 105C FT4 CE ROHS"
Mechanical	Operating Temperature: -25C to +80C
	Min. Bend Radius: 7"

**Color Code**

Pairs	Colors
1	BLACK & BLACK/WHITE
2	BLACK/RED & BLACK/RED/WHITE
3	BLACK/RED/VIOLET & WHITE
4	WHITE/RED & WHITE/BLACK
5	WHITE/RED/BLACK & WHITE/RED/VIOLET
6	RED & RED/WHITE
7	RED/BLACK & RED/VIOLET
8	RED/WHITE/BLACK & RED/BLACK/VIOLET
9	BLUE & BLUE/WHITE
10	BLUE/RED & BLUE/BLACK
11	BLUE/WHITE/BLACK & VIOLET
12	VIOLET/WHITE & VIOLET/BLACK
13	VIOLET/ORANGE/BLACK & VIOLET/BLACK/WHITE
14	ORANGE & ORANGE/RED
15	ORANGE/BLACK & ORANGE/VIOLET
16	ORANGE/WHITE/BLACK & ORANGE/BLACK/VIOLET
17	BROWN & BROWN/WHITE
18	YELLOW & YELLOW/BLACK

**Agency Approval**

UL TYPE CM 105C
UL AWM 2464 80C 300VOLTS VW-1
CSA TYPE CMG 105C
CE: EU LOW VOLTAGE DIRECTIVE 2006/95/EC
RoHS
IEEE 1202 (FT4) FLAME RATED
DESIGNED TO MEET IEC 60332-1, -2 FLAME RATINGS





**DGC - Data Guide Cable Specification**  
**16 Triad - 22 AWG**

**16 Triad 22 AWG PVC Insulated Cable**  
**Overall Foil and Braid Shielded with PVC Jacket**  
**UL and CSA Rated**

Conductor	22 AWG 7 Strands Tinned Annealed Copper in Accordance with ASTM B-3 and B-8
Dielectric	.010" Nominal Wall Thickness PVC to Diameter of .050"
Color Code	As Indicated
Triad Assembly	Lay Length: 1-3/4" Nominal Left Hand
Cable Assembly	Lay Length: 7-3/4" Nominal Left Hand Direction
	Filler: Polypropylene Required in Core Area
	Foil Shield: .0012" Nominal Thickness Aluminum/Polyester Tape, Foil Facing Out
	Drain: 22 AWG 7 Strand Tinned Copper over Foil Shield
Braid	Material: 36 AWG Tinned Copper
	Coverage: 70% Nominal
Jacket	Material: Thermoplastic PVC
	Color: Gray
	Wall Thickness: .032" Nominal
	Finished Cable Diameter: .595" Nominal
Cable Identification	Type: Surface Print on Jacket
	Ink Color: Black
	Legend: "16TRIAD 22A E123820 22 AWG TYPE CM (UL) 105C OR AWM 2464 -- LL91737 CSA TYPE CMG 105C FT4 ROHS"
Mechanical	Operating Temperature: -25C to +105C
	Min. Bend Radius: 7-1/4"
D.G. Part Number	14G1-7
Prepared By:	KAM
Reviewed By:	WJD

**Color Code**

Triad	Color
1	BLACK, BLACK/WHITE, BLACK/YELLOW
2	BLACK/RED, BLACK/RED/WHITE, BLACK/RED/YELLOW
3	BLACK/BLUE, BLACK/BLUE/WHITE, BLACK/BLUE/YELLOW
4	BLACK/VIOLET, BLACK/VIOLET/WHITE, BLACK/VIOLET/YELLOW
5	BLACK/ORANGE, BLACK/ORANGE/WHITE, BLACK/ORANGE/YELLOW
6	RED, RED/WHITE, RED/YELLOW
7	RED/BLUE, RED/BLUE/WHITE, RED/BLUE/YELLOW
8	RED/VIOLET, RED/VIOLET/WHITE, RED/VIOLET/YELLOW
9	RED/ORANGE, RED/ORANGE/WHITE, RED/ORANGE/YELLOW
10	RED/BROWN, RED/BROWN/WHITE, RED/BROWN/YELLOW
11	BLUE, BLUE/WHITE, BLUE/YELLOW
12	BLUE/VIOLET, BLUE/VIOLET/WHITE, BLUE/VIOLET/YELLOW
13	BLUE/ORANGE, BLUE/ORANGE/WHITE, BLUE/ORANGE/YELLOW
14	BLUE/BROWN, BLUE/BROWN/WHITE, BLUE/BROWN/YELLOW
15	VIOLET, VIOLET/WHITE, VIOLET/YELLOW
16	VIOLET/ORANGE, VIOLET/ORANGE/WHITE, VIOLET/ORANGE/YELLOW

**Listings/Agency Approval**

UL TYPE CM 105C
UL AWM 2464 80C 300VOLTS VW-1
CSA TYPE CMG 105C
RoHS
IEEE 1202(FT4) FLAME RATED
DESIGNED TO MEET IEC 60332-1, -2 FLAME RATINGS

**DGC - Data Guide Cable Specification**  
**16 Triad - 18 AWG**

**16 Triad 18 AWG PVC Insulated Cable**  
**Overall Foil Shielded with PVC Jacket**  
**UL and CSA Rated 80C 300VOLTS**

Conductor	18 AWG 16 Strands Tinned Annealed Copper in Accordance with ASTM B-3 and B-8
Dielectric	.010" Nominal Wall Thickness PVC to Diameter of .066"
Color Code	As Indicated
Triad Assembly	Lay Length: 3" Nominal Left Hand
Cable Assembly	Lay Length: 10-1/4" Nominal Left Hand Direction
	Filler: Polypropylene Required in Core Area
	Foil Shield: .0012" Nominal Thickness Aluminum/Polyester Tape, Foil Facing Out
	Drain: 18 AWG 16 Strand Tinned Copper over Foil Shield
Jacket	Material: Thermoplastic PVC
	Color: Gray
	Wall Thickness: .032" Nominal
	Finished Cable Diameter: .737" Nominal
Cable Identification	Type: Surface Print on Jacket
	Ink Color: Black
	Legend: "16TRIAD 18A E90298 AWM 2464 80C 300V VW-1 - LL91737 CSA AWM I/II A/B 80C 300V FT4 ROHS"
Mechanical	Operating Temperature: -25C to +80C
	Min. Bend Radius: 9"
D.G. Part Number	14G1-8
Prepared By:	KAM
Reviewed By:	WJD

**Color Code**

Triad	Color
1	BLACK, BLACK/WHITE, BLACK/YELLOW
2	BLACK/RED, BLACK/RED/WHITE, BLACK/RED/YELLOW
3	BLACK/BLUE, BLACK/BLUE/WHITE, BLACK/BLUE/YELLOW
4	BLACK/VIOLET, BLACK/VIOLET/WHITE, BLACK/VIOLET/YELLOW
5	BLACK/ORANGE, BLACK/ORANGE/WHITE, BLACK/ORANGE/YELLOW
6	RED, RED/WHITE, RED/YELLOW
7	RED/BLUE, RED/BLUE/WHITE, RED/BLUE/YELLOW
8	RED/VIOLET, RED/VIOLET/WHITE, RED/VIOLET/YELLOW
9	RED/ORANGE, RED/ORANGE/WHITE, RED/ORANGE/YELLOW
10	RED/BROWN, RED/BROWN/WHITE, RED/BROWN/YELLOW
11	BLUE, BLUE/WHITE, BLUE/YELLOW
12	BLUE/VIOLET, BLUE/VIOLET/WHITE, BLUE/VIOLET/YELLOW
13	BLUE/ORANGE, BLUE/ORANGE/WHITE, BLUE/ORANGE/YELLOW
14	BLUE/BROWN, BLUE/BROWN/WHITE, BLUE/BROWN/YELLOW
15	VIOLET, VIOLET/WHITE, VIOLET/YELLOW
16	VIOLET/ORANGE, VIOLET/ORANGE/WHITE, VIOLET/ORANGE/YELLOW

**Listings/Agency Approval**


UL AWM 2464 80C 300VOLTS VW-1
CSA TYPE AWM FT4 80C 300VOLTS
RoHS
IEEE 1202 (FT4) FLAME RATED
DESIGNED TO MEET IEC 60332-1, -2 FLAME RATINGS

**DGC - Data Guide Cable  
Specification  
18 Pair - 22 AWG**

**Available  
Upon Request**



**18 Pair 22 AWG Polypropylene Insulated Cable  
Foil and Braid Shielded with LSZH Jacket  
UL AWM Rated**

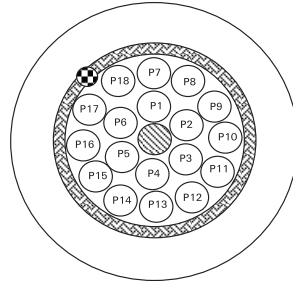
Conductor	22 AWG 7 Strands Tinned Annealed Copper in Accordance with ASTM B-3 and B-8
Dielectric	.013" Nominal Wall Thickness Polypropylene to Diameter of .056"
Color Code	As Indicated
Twist Assembly	Lay Length: 1-3/4" Nominal Left Hand
Cable Assembly	Lay Length: 6" Nominal Left Hand Direction
	Filler: Polypropylene Required in Core Area
	Foil Shield: .0012" Nominal Thickness Aluminum/Polyester Tape, Foil Facing Out
	Drain: 22 AWG 7 Strand Tinned Copper over Foil Shield
Braid	Material: 36 AWG Tinned Copper
	Coverage: 70% Nominal
Jacket	Material: Thermoplastic LSZH
	Color: Gray
	Wall Thickness: .032" Nominal
	Finished Cable Diameter: .498" Nominal
Cable Identification	Type: Surface Print on Jacket
	Ink Color: Black
	Legend: "18PR 22A E90298  AWM STYLE 20626 90C 300VOLTS CE ROHS"
Mechanical	Operating Temperature: -40C to +90C
	Min. Bend Radius: 5-3/4"
<hr/>	
D.G. Part Number	15L20-7
Prepared By:	KAM
Reviewed By:	WJD

**Color Code**

Pair	Color
1	Black & Black/White
2	Black/Red & Black/Red/White
3	Black/Red/Violet & White
4	White/Red & White/Black
5	White/Red/Black & White/Red/Violet
6	Red & Red/White
7	Red/Black & Red/Violet
8	Red/White/Black & Red/Black/Violet
9	Blue & Blue/White
10	Blue/Red & Blue/Black
11	Blue/White/Black & Violet
12	Violet/White & Violet/Black
13	Violet/Orange/Black & Violet/Black/White
14	Orange & Orange/Red
15	Orange/Black & Orange/Violet
16	Orange/White/Black & Orange/Black/Violet
17	Brown & Brown/White
18	Yellow & Yellow/Black

**Listings/Agency Approval**

UL AWM 20626 90C 300VOLTS VW-1
CE: EU Low Voltage Directive 2006/95/EC
RoHS
DESIGNED TO MEET IEC 60332-1, -2 FLAME RATINGS





**Quabbin Wire & Cable  
Specification  
4 Pair - 22 AWG**

**4/C 22 AWG PVC/PVC Shielded Cable  
Type CM, Style 2464, CSA AWM FT4**

Construction		Nom. Dia.
Conductor	22 AWG 7/30 stranded tinned copper	.030"
Insulation	Semi-rigid polyvinylchloride, .010" Nom. Wall thickness	.050"
Cable	(4) Insulated conductors twisted together to form a cable core	.121"
Shield	Aluminized polyester foil shield (foil out, 100% coverage) with a 22 AWG stranded tinned copper drain wire contacting the metalized surface for easy termination	.133"
Jacket	Polyvinylchloride, chrome gray, .032" Nom. Wall thickness overall cable diameter	.197"

**Physical Properties**

Temperature Rating, Max.	60°C & 80°C
Temperature Rating, Min.	-40°C (Per UL 13, Cold Bend)
Wt./M', Nom., Net.	24.2 lbs.

**Electrical Characteristics**

Capacitance, Mutual, Nom.	41 Pf/Ft.
Capacitance, Grounded, Nom.	76 Pf/Ft.
Dielectric Withstanding, Min	1500V RMS
Voltage Rating, Max.	300V
D.C. Resistance, Max. per ASTM B286	16.7 Ω/1,000'

**Color Code**

Pair	Color
1	Black
2	Red
3	White
4	Green

**Listings/Agency Approval**

NEC (UL) Type CM
(UL) AWM Style 2464
CSA AWM FT4

**Application**

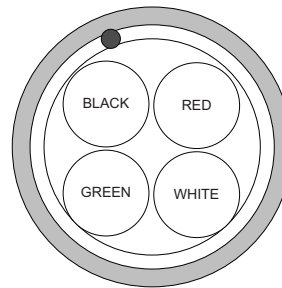
Communication, data, and control cable. RoHS compliant materials

**Print**

Quabbin 7525R (UL) Type CM 22 AWG Shielded Or AWM 2464 – CSA LL51726 AWM I/II A/B 80C 300V FT4 – RoHS – **(Lot Designator)**

**Packaging**

To be packaged as per QWC's standard packaging



**Quabbin Wire & Cable  
Specification  
4 Pair - 18 AWG**

**4/C 18 AWG PVC/PVC Shielded Cable  
Type CM, Style 2464, CSA AWM FT4**

Construction		Nom. Dia.
Conductor	18 AWG 16/30 stranded tinned copper	.045"
Insulation	Semi-rigid polyvinylchloride, .010" Nom. Wall thickness	.065"
Cable	(4) Insulated conductors twisted together with a 2-3/4" lay to form a cable core.	.157"
Shield	Aluminized polyester foil shield (foil out, 100% coverage) with a 20 AWG 7/28 stranded tinned copper drain wire contacting the metalized surface for easy termination.	.171"
Jacket	Polyvinylchloride, chrome gray, .032" Nom. Wall thickness overall cable diameter	.235"

**Physical Properties**

Conductor	As per ASTM B3
Insulation	As per Quabbin specification SRLF-105
Jacket	As per Quabbin specification PAN-90
Shield	As per Quabbin specification AMS001
Temperature Rating, Max.	60°C & 80°C
Temperature Rating, Min.	-20°C
Wt./M', Nom., Net.	40.3 Lbs.

**Electrical Characteristics**

Capacitance, Mutual, Nom.	58 Pf/Ft.
Capacitance, Grounded, Nom.	108 Pf/Ft.
Dielectric Withstanding, Min.	2000V RMS
Voltage Rating, Max.	300V
D.C. Resistance, Max. Per ASTM B286	7.39 Ω/1,000'

**Color Code**

Pair	Color
1	Black
2	White
3	Red
4	Green

**Listings/Agency Approval**

NEC (UL) Type CM
(UL) AWM Style 2464
CSA AWM FT4

**Application**

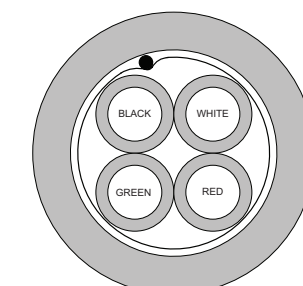
Instrumentation, sound, and broadcast cable. RoHS compliant materials.

**Print**

Quabbin 4175 (UL) Type CM 18 AWG Shielded or AWM 2464 – CSA LL51726 AWM I/II A/B 80C 300V FT4–RoHS–**(Lot Designator)**

**Packaging**

To be packaged as per QWC's standard packaging



**Belden  
Specification  
16 Pair - 22 AWG**

**Available  
Upon Request**



**16 Pair 22 AWG Plenum-CMP Stranded Bare Copper  
Pairs with FEP Insulation, Individually Beldfoil® Shielded  
and PVDF Jacket with Ripcord**

<b>Construction</b>	
Conductor	22 AWG 7 x 30 Strands Bare Copper (BC), .029" Diameter Total Number of Conductors: 32
Insulation	Material: Teflon® Fluorinated Ethylene Propylene (FEP), Wall Thickness: .010" Diameter: .049"
Inner Shield	Material: Beldfoil® Aluminum Foil-Polyester Tape Coverage (%): 100 Drain Wire AWG: 24 Drain Wire Conductor Material: Tinned Copper (TC)
Outer Shield	Material: Unshielded
Outer Jacket	Material: Fluorocopolymer (PVDF) Wall Thickness: .017" Nominal Outer Jacket Ripcord: Yes
Overall Cable	Overall Nominal Diameter: 0.457"
Color Code	As Indicated
Twist Assembly	Lay Length: 1.375"; 6.900 twist/ft.
Mechanical Characteristics (Overall)	Operating Temperature Range: -20°C to +150°C UL Temperature Rating: 75°C Bulk Cable Weight: 150 lbs./1000 ft. Max. Recommended Pulling Tension: 324.200 lbs. Min. Bend Radius/Minor Axis: 4.500"
Applicable Standards and Environmental Programs	NEC/UL) Specification: CMP NEC Articles: 800 CEC/C(UL) Specification: CMP EU Directive 2011/65/EU (ROHS II): Yes EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes
Flame Test	UL Flame Test: NFPA 262 C(UL) Flame Test: FT6
Plenum/Non-Plenum	Plenum (Y/N): Yes
Electrical Characteristics (Overall)	Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft.) .18 Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft.) 27.5 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/ft.) 49.5 Nominal Velocity of Propagation: VP (%) 69 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft.) 16.4 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft.) 15.3 Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current: Current 1.5 Amps per conductor @ 25°C
Notes (Overall)	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
Put-Up	1,000 ft.
Ship Weight	159.000 lb.
Color	Gray
Notes	Crate Reel Put-Up
Item Desc	16 FS PR #22 FEP SLF

**Color Code**

Pair	Color	Pair	Color
1	Black & Red	9	Red & Green
2	Black & White	10	Red & Blue
3	Black & Green	11	Red & Yellow
4	Black & Blue	12	Red & Brown
5	Black & Yellow	13	Red & Orange
6	Black & Brown	14	Green & White
7	Black & Orange	15	Green & Blue
8	Red & White	16	Green & Yellow

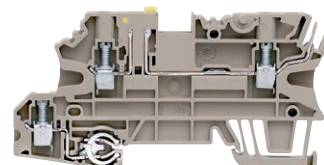
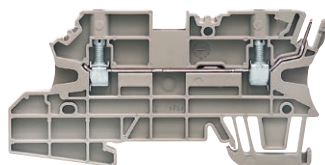
Multi-functional terminals

WMF 2.5 BLZ

2.5 mm<sup>2</sup>

WMF 2.5 DI BLZ PE

2.5 mm<sup>2</sup>

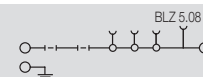


Width/Length/height with TS35x7.5 mm  
 max. current / max. cond. cross-section A/mm<sup>2</sup>  
 Max. clamping range mm<sup>2</sup>

5.08 x 87 x 45  
**26 / 4**  
**0.05...4**



5.08 x 87 x 45  
**19 / 4**  
**0.05...4**



Technical data

Rated data	
Rated voltage	V
Rated current	A
Rated cross-section	(mm <sup>2</sup> )
Rated impulse voltage / Pollution severity	kV/-
Further technical data	
solid / stranded	mm <sup>2</sup>
"f" with wire end ferrule acc. to DIN 46 228/1	(AWG)
"f" with wire end ferrule with plastic collar	(AWG)
Stripping length / Torque range	mm
<b>Note</b>	

IEC	UL	CSA
250	300	300
24	10	10
2.5	26...12 AWG (0.05...4)	
8 kV/3		
0.5...4 / 1.5...4		
0.5...2.5 (26...14)		
0.5...2.5 (26...14)		
10 / 0.5 - 0.6		
UL rated current = 26A (factory wiring only) 20A (factory and field wiring) 15A (at BLZ plug)		

IEC	UL	CSA
250	300	300
20	10	10
2.5	26...12 AWG (0.05...4)	
8 kV/3		
0.5...4 / 1.5...4		
0.5...2.5 (26...14)		
0.5...2.5 (26...14)		
10 / 0.5 - 0.6		
UL rated voltages / current: 300V at User Group B 150V / 15A at User Group D 300V / 10A at User Group D		

Ordering data

Version
Dark beige Wemid
Blue Wemid
Black Wemid
10 - 36 V AC/DC, with LED
30 - 70 V AC/DC, with LED
60 - 15 V AC/DC, with LED
100 - 250 V AC/DC, with LED
<b>Note</b>

Type	Qty.	Part No.
WMF 2.5 BLZ	50	<b>1143050000</b>
UL rated voltages / current: 300V at User Group B 150V / 15A at User Group D 300V / 10A at User Group D		

Type	Qty.	Part No.
WMF 2.5 DI BLZ PE	50	<b>1143010000</b>
UL rated current: 14A at BLZ plug		

Accessories

End plate / partition	Version
AP WMF2.5; Pitch = 1.5 mm	Beige Wemid
Mounting block for socket connector	
	Without peg
Cross-connection	
ZQV 2.5N	2-pole
	3-pole
	10-pole
	20-pole
Screwdriver	
SD acc. to DIN 5264-A	
Module connector (max. 250 V)	
	Without fittings
	With wire jumper
	With 1N4007 diode
Holder for cartridge fuse, 5 x 20 mm	
	400 V AC/DC, without LED
	10 - 36 V AC/DC, red LED
	140 - 250 V AC/DC, red LED
Fuse levers for fuse or disconnect terminals	
Disconnect plug	
	Yellow Wemid
	Disconnect lever only
Marking tags	
Printout	
DEK	neutral
WS	neutral
WAD cover for unused plug positions	

Type	Qty.	Part No.
AP WMF2.5	1	<b>1142990000</b>
WBB WMF2.5 BLZ	1	<b>1142980000</b>
ZQV 2.5N/2 GE	60	<b>1693800000</b>
ZQV 2.5N/3 GE	60	<b>1693810000</b>
ZQV 2.5N/10 GE	20	<b>1693880000</b>
ZQV 2.5N/20 GE	10	<b>1909000000</b>
SD 0.6x3.5x100	1	<b>9008330000</b>
Width		
SIHA 3/G20	6 mm	25
SIHA 3/G20/LD 10-36V	6 mm	25
SIHA 3/G20/LD 140-250V	6 mm	25
SIHA 3/G20	6 mm	25
SIHA 3/G20/LD 10-36V	6 mm	25
SIHA 3/G20/LD 140-250V	6 mm	25
WMF 2.5 Fuse Lever, w/o indication		<b>1167630000</b>
WMF 2.5 Fuse Lever, LED 10-36VAC/DC		<b>1167640000</b>
WMF 2.5 Fuse Lever, LED 30-70VAC/DC		<b>1167650000</b>
WMF 2.5 Fuse Lever, LED 60-150VAC/DC		<b>1167670000</b>
WMF 2.5 Fuse Lever, LED 100-250VAC/DC		<b>1167680000</b>
TNST	50	<b>1833090000</b>
DEK 5	1000	<b>1609801044</b>
WS 10/5 MC Middle	720	<b>1792000000</b>
WAD WMF2.5	1	<b>1142970000</b>

Type	Qty.	Part No.
AP WMF2.5	1	<b>1142990000</b>
WBB WMF2.5 BLZ	1	<b>1142980000</b>
ZQV 2.5N/2 GE	60	<b>1693800000</b>
ZQV 2.5N/3 GE	60	<b>1693810000</b>
ZQV 2.5N/10 GE	20	<b>1693880000</b>
ZQV 2.5N/20 GE	10	<b>1909000000</b>
SD 0.6x3.5x100	1	<b>9008330000</b>
BEST	50	<b>1833100000</b>
BEST/DRBR	50	<b>1878570000</b>
BEST/D	50	<b>1878560000</b>
Width		
SIHA 3/G20	6 mm	25
SIHA 3/G20/LD 10-36V	6 mm	25
SIHA 3/G20/LD 140-250V	6 mm	25
WMF 2.5 Fuse Lever, w/o indication		<b>1167630000</b>
WMF 2.5 Fuse Lever, LED 10-36VAC/DC		<b>1167640000</b>
WMF 2.5 Fuse Lever, LED 30-70VAC/DC		<b>1167650000</b>
WMF 2.5 Fuse Lever, LED 60-150VAC/DC		<b>1167670000</b>
WMF 2.5 Fuse Lever, LED 100-250VAC/DC		<b>1167680000</b>
TNST	50	<b>1833090000</b>
DEK 5	1000	<b>1609801044</b>
WS 10/5 MC Middle	720	<b>1792000000</b>
WAD WMF2.5	1	<b>1142970000</b>

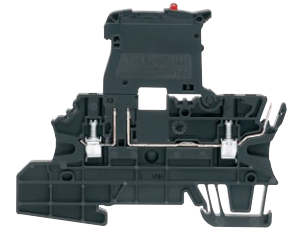
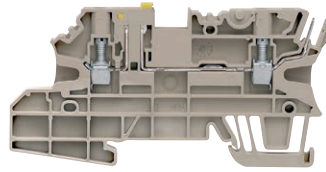
Multi-functional terminals

WMF 2.5 DI BLZ

2.5 mm<sup>2</sup>

WMF 2.5 FU BLZ

2.5 mm<sup>2</sup>



Width/Length/height with TS35x7.5 mm  
 max. current / max. cond. cross-section A/mm<sup>2</sup>  
 Max. clamping range mm<sup>2</sup>

5.08 x 87 x 45  
**19 / 4**  
**0.05...4**

5.08 x 87 x 72  
**15 / 4**  
**0.05...4**

Technical data

Rated data	
Rated voltage	V
Rated current	A
Rated cross-section	(mm <sup>2</sup> )
Rated impulse voltage / Pollution severity	kV/-
Further technical data	
solid / stranded	mm <sup>2</sup>
"F" with wire end ferrule acc. to DIN 46 228/1	(AWG)
"F" with wire end ferrule with plastic collar	(AWG)
Stripping length / Torque range	mm
Note	

IEC	UL	CSA
250		
20		
2.5		
8 kV/3		
0.5...4 / 1.5...4		
0.5...2.5 (26...14)		
0.5...2.5 (26...14)		
10 / 0.5 - 0.6		
UL rated voltages / current: 300V at User Group B 150V / 15A at User Group D 300V / 10A at User Group D		

IEC	UL	CSA
250	300	300
6.3	10	10
2.5	26...12 AWG (0.05...4)	
8 kV/3		
0.5...4 / 1.5...4		
0.5...2.5 (26...14)		
0.5...2.5 (26...14)		
10 / 0.5 - 0.6		
UL rated voltages / current: 300V at User Group B 150V / 15A at User Group D 300V / 10A at User Group D 8.5A at BLZ plug		

Ordering data

Version
Dark beige Wemid
Blue Wemid
Black Wemid
10 - 36 V AC/DC, with LED
30 - 70 V AC/DC, with LED
60 - 15 V AC/DC, with LED
100 - 250 V AC/DC, with LED
Note

Type	Qty.	Part No.
WMF 2.5 DI BLZ	50	1143000000
UL rated current: 14A at BLZ plug		

Type	Qty.	Part No.
WMF 2.5 FU BLZ SW	50	1162980000
WMF 2.5 FU BLZ 10-36V SW	50	1162990000
WMF 2.5 FU BLZ 30-70V SW	50	1163000000
WMF 2.5 FU BLZ 60-150V SW	50	1163010000
WMF 2.5 FU BLZ 100-250V SW	50	1163020000
LED versions with low leakage current < 0.5 mA		

Accessories

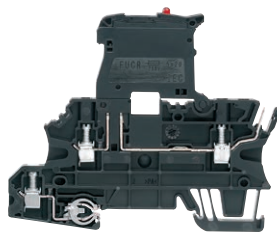
End plate / partition	Version
AP WMF2.5; Pitch = 1.5 mm	Beige Wemid
Mounting block for socket connector	
	Without peg
Cross-connection	
ZQV 2.5N	2-pole
	3-pole
	10-pole
	20-pole
Screwdriver	
SD acc. to DIN 5264-A	
Module connector (max. 250 V)	
	Without fittings
	With wire jumper
	With 1N4007 diode
Holder for cartridge fuse, 5 x 20 mm	
	400 V AC/DC, without LED
	10 - 36 V AC/DC, red LED
	140 - 250 V AC/DC, red LED
Fuse levers for fuse or disconnect terminals	
Disconnect plug	
	Yellow Wemid
	Disconnect lever only
Marking tags	
	Printout
DEK	neutral
WS	neutral
WAD cover for unused plug positions	

Type	Qty.	Part No.
AP WMF2.5	1	1142990000
WBB WMF2.5 BLZ	1	1142980000
ZQV 2.5N/2 GE	60	1693800000
ZQV 2.5N/3 GE	60	1693810000
ZQV 2.5N/10 GE	20	1693880000
ZQV 2.5N/20 GE	10	1909000000
SD 0.6x3.5x100	1	9008330000
BEST	50	1833100000
BEST/DRBR	50	1878570000
BEST/D	50	1878560000
Width		
SIHA 3/G20	6 mm	25
SIHA 3/G20/LD 10-36V	6 mm	25
SIHA 3/G20/LD 140-250V	6 mm	25
WMF 2.5 Fuse Lever, w/o indication		1167630000
WMF 2.5 Fuse Lever, LED 10-36VAC/DC		1167640000
WMF 2.5 Fuse Lever, LED 30-70VAC/DC		1167650000
WMF 2.5 Fuse Lever, LED 60-150VAC/DC		1167670000
WMF 2.5 Fuse Lever, LED 100-250VAC/DC		1167680000
TNST	50	1833090000
Width		
SIHA 3/G20	6 mm	25
SIHA 3/G20/LD 10-36V	6 mm	25
SIHA 3/G20/LD 140-250V	6 mm	25
WMF 2.5 Fuse Lever, w/o indication		1167630000
WMF 2.5 Fuse Lever, LED 10-36VAC/DC		1167640000
WMF 2.5 Fuse Lever, LED 30-70VAC/DC		1167650000
WMF 2.5 Fuse Lever, LED 60-150VAC/DC		1167670000
WMF 2.5 Fuse Lever, LED 100-250VAC/DC		1167680000
DEK 5	1000	1609801044
WS 10/5 MC Middle	720	1792000000
WAD WMF2.5	1	1142970000

Type	Qty.	Part No.
AP WMF2.5	1	1142990000
WBB WMF2.5 BLZ	1	1142980000
ZQV 2.5N/2 GE	60	1693800000
ZQV 2.5N/3 GE	60	1693810000
ZQV 2.5N/10 GE	20	1693880000
ZQV 2.5N/20 GE	10	1909000000
SD 0.6x3.5x100	1	9008330000
Width		
SIHA 3/G20	6 mm	25
SIHA 3/G20/LD 10-36V	6 mm	25
SIHA 3/G20/LD 140-250V	6 mm	25
WMF 2.5 Fuse Lever, w/o indication		1167630000
WMF 2.5 Fuse Lever, LED 10-36VAC/DC		1167640000
WMF 2.5 Fuse Lever, LED 30-70VAC/DC		1167650000
WMF 2.5 Fuse Lever, LED 60-150VAC/DC		1167670000
WMF 2.5 Fuse Lever, LED 100-250VAC/DC		1167680000
DEK 5	1000	1609801044
WS 10/5 MC Middle	720	1792000000
WAD WMF2.5	1	1142970000

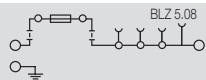
Multi-functional terminals

WMF 2.5 FU BLZ PE SW 2.5 mm<sup>2</sup>



Width/Length/height with TS35x7.5	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

5.08 x 87 x 72	
15 / 4	
0.05...4	



Technical data

Rated data	
Rated voltage	V
Rated current	A
Rated cross-section	(mm <sup>2</sup> )
Rated impulse voltage / Pollution severity	kV/-
Further technical data	
solid / stranded	mm <sup>2</sup>
"f" with wire end ferrule acc. to DIN 46 228/1	(AWG)
"f" with wire end ferrule with plastic collar	(AWG)
Stripping length / Torque range	mm
Note	

IEC	UL	CSA
250	300	300
6.3	10	10
2.5	26...12 AWG (0.05...4)	
8 kV/3		
0.5...4 / 1.5...4		
0.5...2.5 (26...14)		
0.5...2.5 (26...14)		
10 / 0.5 - 0.6		
UL rated voltages / current: 300V at User Group B 150V / 15A at User Group D 300V / 10A at User Group D 8.5A at BLZ plug		

Ordering data

Version	
Dark beige Wemid	
Blue Wemid	
Black Wemid	
10 - 36 V AC/DC, with LED	
30 - 70 V AC/DC, with LED	
60 - 15 V AC/DC, with LED	
100 - 250 V AC/DC, with LED	
Note	

Type	Qty.	Part No.
WMF 2.5 FU BLZ PE SW	50	1162820000
WMF 2.5 FU BLZ PE 10-36V SW	50	1162830000
WMF 2.5 FU BLZ PE 30-70V SW	50	1162840000
WMF 2.5 FU BLZ PE 60-150V SW	50	1162850000
WMF 2.5 FU BLZ PE 100-250V SW	50	1162860000
LED versions with low leakage current < 0.5 mA		

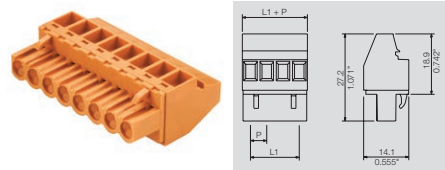
Accessories

End plate / partition	Version
AP WMF2.5; Pitch = 1.5 mm	Beige Wemid
Mounting block for socket connector	
	Without peg
Cross-connection	
ZQV 2.5N	2-pole
	3-pole
	10-pole
	20-pole
Screwdriver	
SD acc. to DIN 5264-A	
Module connector (max. 250 V)	
	Without fittings
	With wire jumper
	With 1N4007 diode
Holder for cartridge fuse, 5 x 20 mm	
	400 V AC/DC, without LED
	10 - 36 V AC/DC, red LED
	140 - 250 V AC/DC, red LED
Fuse levers for fuse or disconnect terminals	
Disconnect plug	
	Yellow Wemid
	Disconnect lever only
Marking tags	
	Printout
DEK	neutral
WS	neutral
WAD cover for unused plug positions	

Type	Qty.	Part No.
AP WMF2.5	1	1142990000
Width		
SIHA 3/G20	6 mm	25 7921560000
SIHA 3/G20/LD 10-36V	6 mm	25 7921570000
SIHA 3/G20/LD 140-250V	6 mm	25 7921600000
WMF 2.5 Fuse Lever, w/o indication		1167630000
WMF 2.5 Fuse Lever, LED 10-36VAC/DC		1167640000
WMF 2.5 Fuse Lever, LED 30-70VAC/DC		1167650000
WMF 2.5 Fuse Lever, LED 60-150VAC/DC		1167670000
WMF 2.5 Fuse Lever, LED 100-250VAC/DC		1167680000
DEK 5	1000	1609801044
WS 10/5 MC Middle	720	1792000000
WAD WMF2.5	1	1142970000

BLZP 5.08/90

Can be mounted side-by-side without sacrificing any poles

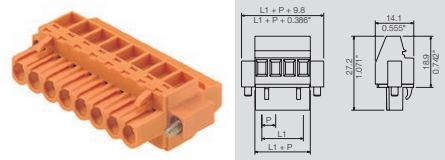


Ordering data

Pitch 5.08 mm					
Color of plastic			Orange	Black	
Poles	L1 mm	(inch)	Qty.	Part No.	Part No.
2	5.08	(0.200)	180	1948000000	1948240000
4	15.24	(0.600)	90	1948020000	1948260000
8	35.56	(1.400)	42	1948060000	1948300000
12	55.88	(2.200)	30	1948110000	1948340000
16	76.20	(3.000)	18	1948150000	1948380000

BLZP 5.08/90F

With screw flange



Ordering data

Pitch 5.08 mm					
Color of plastic			Orange	Black	
Poles	L1 mm	(inch)	Qty.	Part No.	Part No.
2	5.08	(0.200)	90	1949800000	1950040000
4	15.24	(0.600)	60	1949820000	1950060000
8	35.56	(1.400)	36	1949860000	1950100000
12	55.88	(2.200)	24	1949900000	1950140000
16	76.20	(3.000)	18	1949940000	1950180000

Technical data

Rated data to IEC 60664-1 / IEC 61984		
Clamping range, max.	mm <sup>2</sup>	0.13...4
Solid H05(07) V-U	mm <sup>2</sup>	0.2...4
Stranded H07 V-R	mm <sup>2</sup>	
Flexible H05(07) V-K	mm <sup>2</sup>	0.2...4
Flexible with ferrule	mm <sup>2</sup>	0.2...4
Ferrule with plastic collar	mm <sup>2</sup>	0.2...2.5
Stripping length	mm	7
Screwdriver blade	mm	0.6 x 3.5
according to norm		DIN 5264
Tightening torque range	Nm	0.4 ... 0.5
Rated current		
at ambient temperature	20 °C	40 °C
	A	15 12
Overvoltage category		
	III	III II
Pollution severity		
	3	2 2
Rated voltage	V	250 320 400
Rated impulse voltage	kV	4 4 4
UL 1059 rated data		
	B	C D
Nominal voltage	V	300 300
Rated current	A	15 10
AWG conductor		26-12
CSA C22.2 rated data		
	B	C D
Nominal voltage	V	300 300
Rated current	A	10 10
AWG conductor		26-12
Material data		
Type of insulating material		PBT
Flammability class acc. UL94		V-0
Contact base material		Copper alloy
Material of contact surface		tinned

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