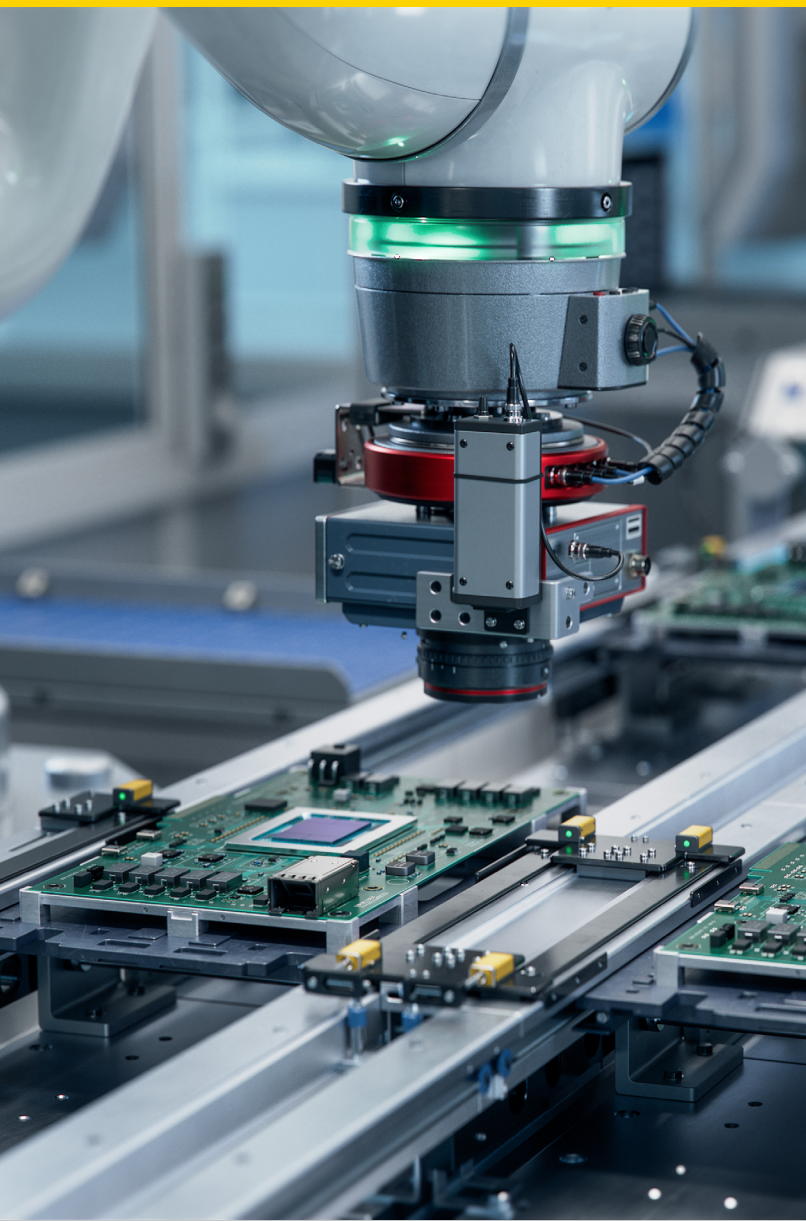


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TURCK

Signal Connectivity M8 Catalog



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Signal Connectivity | M8 Intro

M8 connectors provide reliable connections for sensors and actuators in a small, secure and environmentally sealed design. This connector style is a standard in industrial applications such as packaging, automation, robotics, and semiconductor manufacturing. The wide variety of cable types, locking styles and connector orientations address a wide range applications.

Product Overview

Number of Poles	3,4,6
Conductor size range	Up to 22 AWG
Rated current	Up to 4A
Rated voltage	Up to 125 V
Protection Class	Up to NEMA 1,3,4,6P and IEC IP67 / IP 68
Ambient Temperature	From -40C to +105C
Insertion Cycles	>100
Design standard	IEC 61076-2-104
Hardware choices	POM Nickel Plated Brass 316 Stainless Steel Passivated

Quick Links:



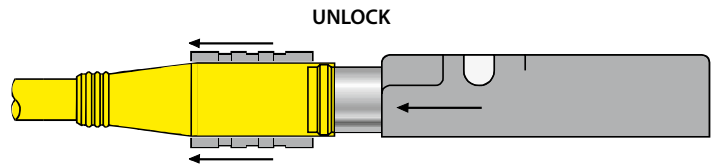
Part Number Key
Find the part number key on pg 6.



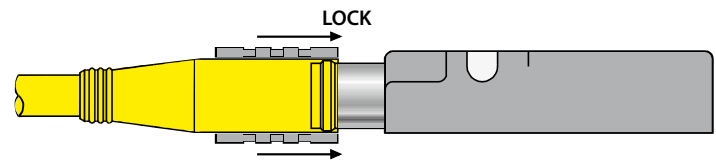
Installation Guide

Signal Connectivity | M8 Picofast "Snap Lock" Connector Instructions

With Turck's patented Locking Sleeve pulled back, any Picofast sensor slides on without any difficulty.



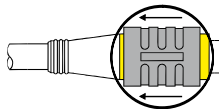
After sensor is connected, push Locking Sleeve forward to create a watertight connection. It's a snap!



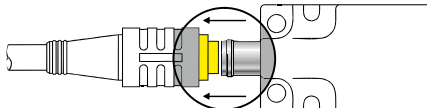
Installation Instructions

To Attach:

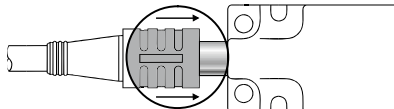
1. Be sure black locking sleeve is pulled back.



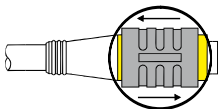
2. Line up pins and push connector onto plug. You will feel a "snap." Do not twist.



3. Push locking sleeve forward on connector until it is flush with the front of the connector.

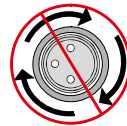


4. If sleeve is difficult to slide on a new connector, "exercise" it a few times. Do not use tools.

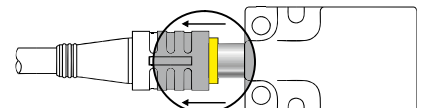


To Detach:

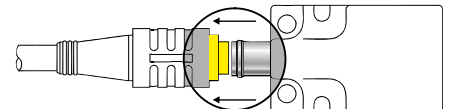
1. Do not twist.



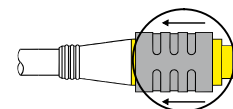
2. Pull locking sleeve back to "unlocked" position.



3. Pull connector straight off.



4. Leave locking sleeve in unlocked position.



Signal Connectivity | M8 Straight Threaded Cordsets

M8 Straight Threaded					
Pins	Cable Material	Cable Color	Female	Male	Extension
3	PVC	Yellow	PKG 3M-*	PSG 3M-*	PKG 3M-*-PSG 3M
	PVC	Black	PKG 3M-*/S760/S771	PSG 3M-*/S760/S771	PKG 3M-*-PSG 3M/S760/S771
	PVC Shielding on coupling nut	Yellow	PKGS 3M-*	PSGS 3M-*	PKGS 3M-*-PSGS 3M
	TPU	Black	PKG 3M-*/S90	PSG 3M-*/S90	PKG 3M-*-PSG 3M/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKG 3M-*/S90/S101	PSG 3M-*/S90/S101	PKG 3M-*-PSG 3M/S90/S101
	TPU Shielded	Black	PKG 3M-*/S90/S618	PSG 3M-*/S90/S618	PKG 3M-*-PSG 3M/S90/S618
	TPU Shielding on coupling nut	Black	PKGS 3M-*/S90	PSGS 3M-*/S90	PKGS 3M-*-PSGS 3M/S90
	TPU, retractile coil	Black	PKG 3M-3/S90-SP	PSG 3M-3/S90-SP	PKG 3M-3-PSG 3M/S90-SP
4	TPE Weldlife Cable, Weld spatter resistant	Yellow	PKG 3M-*/S1587	PSG 3M-*/S1587	PKG 3M-*-PSG 3M/S1587
	PVC	Yellow	PKG 4M-*	PSG 4M-*	PKG 4M-*-PSG 4M
	PVC	Black	PKG 4M-*/S760/S771	PSG 4M-*/S760/S771	PKG 4M-*-PSG 4M/S760/S771
	PVC Shielding on coupling nut	Yellow	PKGS 4M-*	PSGS 4M-*	PKGS 4M-*-PSGS 4M
	TPU	Black	PKG 4M-*/S90	PSG 4M-*/S90	PKG 4M-*-PSG 4M/S90
	TPU	Black	PKG 4M-*/S90/S101	PSG 4M-*/S90/S101	PKG 4M-*-PSG 4M/S90/S101
	TPU Shielded	Black	PKG 4M-*/S90/S618	PSG 4M-*/S90/S618	PKG 4M-*-PSG 4M/S90/S618
	TPU Shielding on coupling nut	Black	PKGS 4M-*/S90	PSGS 4M-*/S90	PKGS 4M-*-PSGS 4M/S90
6	TPU, retractile coil	Black	PKG 4M-3/S90-SP	PSG 4M-3/S90-SP	PKG 4M-3-PSG 4M/S90-SP
	TPE Weldlife Cable, Weld spatter resistant	Yellow	PKG 4M-*/S1587	PSG 4M-*/S1587	PKG 4M-*-PSG 4M/S1587
	PVC	Yellow	PKG 6M-*	PSG 6M-*	PKG 6M-*-PSG 6M
	PVC	Black	PKG 6M-*/S760/S771	PSG 6M-*/S760/S771	PKG 6M-*-PSG 6M/S760/S771
6	TPU	Black	PKG 6M-*/S90	PSG 6M-*/S90	PKG 6M-*-PSG 6M/S90
	TPU Shielded	Black	PKG 6M-*/S90/S618	PSG 6M-*/S90/S618	PKG 6M-*-PSG 6M/S90/S618

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, and 15 meters. Consult factory for other lengths.

Consult factory for additional options.

Signal Connectivity | M8 Right Angle Threaded Cordsets

M8 Right Angle Threaded					
Pins	Cable Material	Cable Color	Female	Male	Extension
3	PVC	Yellow	PKW 3M-*	PSW 3M-*	PKW 3M-*-PSW 3M
	PVC	Black	PKW 3M-*/S760/S771	PSW 3M-*/S760/S771	PKW 3M-*-PSW 3M/S760/S771
	PVC Shielding on coupling nut	Yellow	PKWS 3M-*	PSWS 3M-*	PKWS 3M-*-PSWS 3M
	TPU	Black	PKW 3M-*/S90	PSW 3M-*/S90	PKW 3M-*-PSW 3M/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKW 3M-*/S90/S101	PSW 3M-*/S90/S101	PKW 3M-*-PSW 3M/S90/S101
	TPU Shielded	Black	PKW 3M-*/S90/S618	PSW 3M-*/S90/S618	PKW 3M-*-PSW 3M/S90/S618
	TPU Shielding on coupling nut	Black	PKWS 3M-*/S90	PSWS 3M-*/S90	PKWS 3M-*-PSWS 3M/S90
	TPU, retractile coil	Black	PKW 3M-3/S90-SP	PSW 3M-3/S90-SP	PKW 3M-3-PSW 3M/S90-SP
4	TPE Weldlife Cable, Weld spatter resistant	Yellow	PKW 3M-*/S1587	PSW 3M-*/S1587	PKW 3M-*-PSW 3M/S1587
	PVC	Yellow	PKW 4M-*	PSW 4M-*	PKW 4M-*-PSW 4M
	PVC	Black	PKW 4M-*/S760/S771	PSW 4M-*/S760/S771	PKW 4M-*-PSW 4M/S760/S771
	PVC Shielding on coupling nut	Yellow	PKWS 4M-*	PSWS 4M-*	PKWS 4M-*-PSWS 4M
	TPU	Black	PKW 4M-*/S90	PSW 4M-*/S90	PKW 4M-*-PSW 4M/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKW 4M-*/S90/S101	PSW 4M-*/S90/S101	PKW 4M-*-PSW 4M/S90/S101
	TPU Shielded	Black	PKW 4M-*/S90/S618	PSW 4M-*/S90/S618	PKW 4M-*-PSW 4M/S90/S618
	TPU Shielding on coupling nut	Black	PKWS 4M-*/S90	PSWS 4M-*/S90	PKWS 4M-*-PSWS 4M/S90
6	TPU, retractile coil	Black	PKW 4M-3/S90-SP	PSW 4M-3/S90-SP	PKW 4M-3-PSW 4M/S90-SP
	TPE Weldlife Cable, Weld spatter resistant	Yellow	PKW 4M-*/S1587	PSW 4M-*/S1587	PKW 4M-*-PSW 4M/S1587
	PVC	Yellow	PKW 6M-*	PSW 6M-*	PKW 6M-*-PSW 6M
	PVC	Black	PKW 6M-*/S760/S771	PSW 6M-*/S760/S771	PKW 6M-*-PSW 6M/S760/S771
	TPU	Black	PKW 6M-*/S90	PSW 6M-*/S90	PKW 6M-*-PSW 6M/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKW 6M-*/S90/S101	PSW 6M-*/S90/S101	PKW 6M-*-PSW 6M/S90/S101
	TPU Shielded	Black	PKW 6M-*/S90/S618	PSW 6M-*/S90/S618	PKW 6M-*-PSW 6M/S90/S618

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, and 15 meters. Consult factory for other lengths.

Consult factory for additional options.

Signal Connectivity | M8 Right Angle with LED Cordsets

M8 Right Angle with LEDs					
					
Pins	Cable Material	Cable Color	LED	Female - Threaded	Female - Snap Lock
3	PVC LED	Yellow	PNP	PKW 3M-P7X2-*	PKW 3Z-P7X2-*
	PVC LED	Black	PNP	PKW 3M-P7X2-*/S760	PKW 3Z-P7X2-*/S760
	TPU High Flex, C-track, Suitable for drag chain use, LED	Black	PNP	PKW 3M-P7X2-*/S90/S101	PKW 3Z-P7X2-*/S90/S101
	TPU LED	Black	PNP	PKW 3M-P7X2-*/S90	PKW 3Z-P7X2-*/S90
	TPU LED, Shielded	Black	PNP	PKW 3M-P7X2-*/S90/S618	PKW 3Z-P7X2-*/S90/S618
	TPE LED	Yellow	PNP	PKW 3M-P7X2-*/S1587	PKW 3Z-P7X2-*/S1587
3	PVC LED	Yellow	NPN	PKW 3M-N7X2-*	PKW 3Z-N7X2-*
	TPU High Flex, C-track, Suitable for drag chain use, LED	Black	NPN	PKW 3M-N7X2-*/S90/S101	PKW 3Z-N7X2-*/S90/S101
	TPU LED	Black	NPN	PKW 3M-N7X2-*/S90	PKW 3Z-N7X2-*/S90
	TPU LED, Shielded	Black	NPN	PKW 3M-N7X2-*/S90/S618	PKW 3Z-N7X2-*/S90/S618
4	PVC LED	Yellow	PNP	PKW 4M-P7X2-*	PKW 4Z-P7X2-*
	TPU LED	Black	PNP	PKW 4M-P7X2-*/S90	PKW 4Z-P7X2-*/S90/S101
	TPU High Flex, C-track, Suitable for drag chain use, LED	Black	PNP	PKW 4M-P7X2-*/S90/S101	PKW 4Z-P7X2-*/S90
	TPU LED, Shielded	Black	PNP	PKW 4M-P7X2-*/S90/S618	PKW 4Z-P7X2-*/S90/S618

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, and 15 meters. Consult factory for other lengths.

Consult factory for additional options.

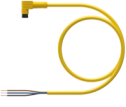
Signal Connectivity | M8 Straight Snap Lock Cordsets

M8 Straight Snap Lock Cordsets					
					
Pins	Cable Material	Cable Color	Female	Male	Extension
3	PVC	Yellow	PKG 3Z-*	PSG 3-*	PKG 3Z-*.PSG 3
	PVC	Black	PKG 3Z-*/S760/S771	PSG 3-*/S760/S771	PKG 3Z-*.PSG 3/S760/S771
	TPU	Black	PKG 3Z-*/S90	PSG 3-*/S90	PKG 3Z-*.PSG 3/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKG 3Z-*/S90/S101	PSG 3-*/S90/S101	PKG 3Z-*.PSG 3/S90/S101
	TPU Shielded	Black	PKG 3Z-*/S90/S618	PSG 3-*/S90/S618	PKG 3Z-*.PSG 3/S90/S618
	TPU, retractile coil	Black	PKG 3Z-3/S90-SP	PSG 3-3/S90-SP	PKG 3Z-3-PSG 3/S90-SP
	TPE Weldlife Cable, Weld spatter resistant	Yellow	PKG 3Z-*/S1587	PSG 3-*/S1587	PKG 3Z-*.PSG 3/S1587
4	PVC	Yellow	PKG 4Z-*	PSG 4-*	PKG 4Z-*.PSG 4/S760/S771
	PVC	Black	PKG 4Z-*/S760/S771	PSG 4-*/S760/S771	PKG 4Z-*.PSG 4
	TPU	Black	PKG 4Z-*/S90	PSG 4-*/S90	PKG 4Z-*.PSG 4/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKG 4Z-*/S90/S101	PSG 4-*/S90/S101	PKG 4Z-*.PSG 4/S90/S101
	TPU Shielded	Black	PKG 4Z-*/S90/S618	PSG 4-*/S90/S618	PKG 4Z-*.PSG 4/S90/S618
	TPU, retractile coil	Black	PKG 4Z-3/S90-SP	PSG 4-3/S90-SP	PKG 4Z-3-PSG 3/S90-SP
6	PVC	Yellow	PKG 6Z-*	PSG 6-*	PKG 6Z-*.PSG 6
	PVC	Black	PKG 6Z-*/S760/S771	PSG 6-*/S760/S771	PKG 6Z-*.PSG 6/S760/S771
	TPU	Black	PKG 6Z-*/S90	PSG 6-*/S90	PKG 6Z-*.PSG 6/S90
	TPU Shielded	Black	PKG 6Z-*/S90/S618	PSG 6-*/S90/S618	PKG 6Z-*.PSG 6/S90/S618

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, and 15 meters. Consult factory for other lengths.

Consult factory for additional options.

Signal Connectivity | M8 Right Angle Snap Lock Cordsets

M8 Right Angle Snap Lock Cordsets				
				
Pins	Cable Material	Cable Color	Female	Male
3	PVC	Yellow	PKW 3Z-*	PSW 3-*
	PVC	Black	PKW 3Z-*/S760/S771	PSW 3-*/S760/S771
	TPU	Black	PKW 3Z-*/S90	PSW 3-*/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKW 3Z-*/S90/S101	PSW 3-*/S90/S101
	TPU Shielded	Black	PKW 3Z-*/S90/S618	PSW 3-*/S90/S618
	TPU, retractile coil	Black	PKW 3Z-3/S90-SP	PSW 3-3/S90-SP
	TPE Weldlife Cable, Weld spatter resistant	Yellow	PKW 3Z-*/S1587	PSW 3-*/S1587
4	PVC	Yellow	PKW 4Z-*	PSW 4-*
	TPU	Black	PKW 4Z-*/S90	PSW 4-*/S90
	TPU High Flex, C-track, Suitable for drag chain use	Black	PKW 4Z-*/S90/S101	PSW 4-*/S90/S101
	TPU Shielded	Black	PKW 4Z-*/S90/S618	PSW 4-*/S90/S618
6	PVC	Yellow	PKW 6Z-*	PSW 6-*
	TPU	Black	PKW 6Z-*/S90	PSW 6-*/S90
	TPU Shielded	Black	PKW 6Z-*/S90/S618	PSW 6-*/S90/S618

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, and 15 meters. Consult factory for other lengths.

Consult factory for additional options.

Signal Connectivity | M8 Receptacles

Female						
Pins	Front Mount Threaded	Rear Mount Solder Cups Threaded	Rear Mount PCB Straight	Rear Mount PCB Right Angle	Mounting Bracket Threaded PCB Straight	Mounting Bracket Threaded PCB Right Angle
3	MFKS 3-*	MFKS 3F	MFKS 3F-PCBF	WMFK 3F-PCB	MFKSH 3F-PCB	WMFKSH 3F-PCB
4	MFKS 4-*	MFKS 4F	MFKS 4F-PCBF	WMFK 4F-PCB	MFKSH 4F-PCB	WMFKSH 4F-PCB
6	MFKS 6-*	MFKS 6F		WMFK 6F-PCB		

Panel Feed Through Connector		Male			
Pins	Male to Female Panel Feedthrough	Front Mount Snap	Front Mount Threaded or Snap	Rear Mount Threaded or Snap	Rear Mount PCB Right Angle
3	MFSV MFKV 3/M8	MFS 3-*	MFSS 3-*	MFS 3F-*	WMFS 3F-PCB
4	MFSV MFKV 4/M8	MFS 4-*	MFSS 4-*	MFS 4F-*	WMFS 4F-PCB
6	MFSV MFKV 6/M8	MFS 6-*	MFSS 6-*	MFS 6F-*	WMFS 6F-PCB

* Length in meters. Standard lengths are 0.5, 1, and 2 meters. Consult factory for other lengths.

Consult factory for additional options.

Signal Connectivity | M8 Field Wireables

Female					
					
Pins	Solder Terminal Threaded Straight	Solder Terminal Threaded Right Angle	Screw Terminal Threaded Straight	Screw Terminal Threaded Right Angle	IDC Terminal Threaded Straight
3	B 5131-0	B 5231-0	B 5133-0	B 5233-0	B 5136-0
4	B 5141-0	B 5241-0	B 5143-0	B 5243-0	B 5146-0

Male					
					
Pins	Solder Terminal Threaded Straight	Solder Terminal Threaded Right Angle	Screw Terminal Threaded Straight	Screw Terminal Threaded Right Angle	IDC Terminal Threaded Straight
3	BS 5131-0	BS 5231-0	BS 5133-0	BS 5233-0	BS 5136-0
4	BS 5141-0	BS 5241-0	BS 5143-0	BS 5243-0	BS 5146-0

Consult factory for additional options.

Signal Connectivity | M8 Junction Boxes

M8 Threaded Junction Box - 4 Port				
				
Pins	Description	4 Port No LEDs	4 Port PNP LEDs	4 Port NPN LEDs
3	Integral Homerun Cable	TB-4M8M-3-*	TB-4M8M-3P2-*	TB-4M8M-3N2-*
3	M12 Homerun Connector	TB-4M8M-3-FS8	TB-4M8M-3P2-FS8	TB-4M8M-3N2-FS8
4	Integral Homerun Cable	TB-4M8M-4-*		
4	M12 Homerun Connector	TB-4M8M-4-FS12		
4	M16 Homerun Connector	TB-4M8M-4-*-BSM14		

M8 Snap Lock Threaded Junction Box - 4 Port				
				
Pins	Description	4 Port No LEDs	4 Port PNP LEDs	4 Port NPN LEDs
3	Integral Homerun Cable	TB-4M8Z-3-*	TB-4M8Z-3P2-*	
3	M12 Homerun Connector	TB-4M8Z-3-FS8	TB-4M8Z-3P2-FS8	TB-4M8Z-3N2-FS8
4	Integral Homerun Cable	TB-4M8Z-4-*		
4	M16 Homerun Connector	TB-4M8M-4-*-BSM14		

* Length in meters. Standard length is 5 meters. Consult factory for other lengths.

Consult factory for additional wiring options.

Signal Connectivity | Junction Boxes

M8 Threaded Junction Box - 8 Port				
				
Pins	Description	8 Port No LEDs	8 Port PNP LEDs	8 Port NPN LEDs
3	Integral Homerun Cable	TB-8M8M-3-*	TB-8M8M-3P2-*	TB-8M8M-3N2-*
3	M12 Homerun Connector	TB-8M8M-3-FS12	TB-8M8M-3P2-FS12	TB-8M8M-3N2-FS12
4	Integral Homerun Cable	TB-8M8M-4-*		
4	M16 Homerun Connector	TB-8M8M-4-BSM19		

M8 Snap Lock Threaded Junction Box - 8 Port				
				
Pins	Description	8 Port No LEDs	8 Port PNP LEDs	8 Port NPN LEDs
3	Integral Homerun Cable	TB-8M8Z-3-*	TB-8M8Z-3P2-*	
3	M12 Homerun Connector	TB-8M8Z-3-FS12	TB-8M8Z-3P2-FS12	TB-8M8Z-3N2-FS12
4	Integral Homerun Cable	TB-8M8Z-4-*		

* Length in meters. Standard length is 5 meters. Consult factory for other lengths.

Consult factory for additional wiring options.

Signal Connectivity | Splitters

M8 Splitter			
			
	Close coupled	Cable on trunk and branches	Cable on branches
3 Wire Standard	YP2-MFS 4/2MFK 3	YP2-PSG4M-*/2PKG3M-*/*	YP2-MFS4/2PKG3M-*/*
3 Wire Standard LED	YP2-PX2-MFS 4/2MFK 3	YP2-PX2-PSG4M-*/2PKG3M-*/*	
3 Wire Parallel	YP2-MFS 3/2MFK 3/S651	YP2-PSG3M-*/2PKG3M-*/*/S651	YP2-MFS3/2PKG3M-*/*/S651
4 Wire Parallel	YP2-MFS4/2MFK4/S651	YP2-PSG4M-*/2PKG4M-*/*/S651	YP2-MFS4/2PKG4M-*/*/S651

M12 Splitter		
		
	Close coupled	Cable on branches
3 Wire Standard	VBRS 4.4-2SKM 3	VBRS 4.4-2PKG 3M-*/*

* Length in meters. Standard lengths are 5, 10, and 15 meters. Consult factory for other lengths.

Consult factory for additional wiring options.

Signal Connectivity | Accessories

Closure Caps		
Style	Mates to Male	Mates to Female
Threaded Hand Tighten	PKG-MC	PSG-MC
Threaded Hand Tighten + Lanyard	PKG-CC	PSG-CC
Threaded Phillips Head (Plastic)		PSGM-CC (8/BAG)
Snap Lock		PSGK-MC (8/BAG)

M8 Connector Inserts	
Pin	Female
3	MFKB 3 (10/BAG)
4	MFKB 4 (10/BAG)

M12-M8 Adaptors		
Pin	Female M12 to Male M8	Male M12 to Female M8
3	FKMR 4-ESM 3S	FSMR 4-SKM 3
4	FKMR 4.4-ESM 4S	FSMR 4.4-SKM 4

Set of Torque Wrenches	
TORQUE-WRENCH-SET-M12&M8-LEGACY	

Mounting Aide	
M8-CORDSETS-MOUNTING-CLIP-(10/BAG)	

TURCK



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