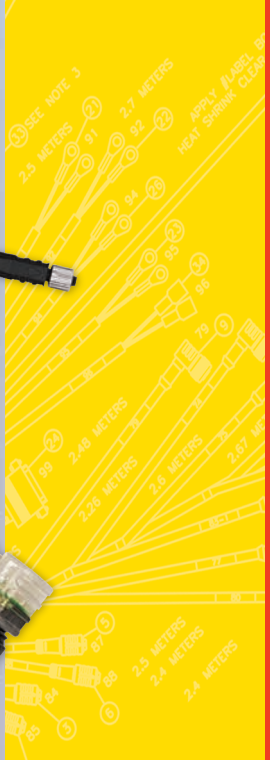


**CONNECTIVITY
CAPABILITIES**



Welcome to the **TURCK** Connectivity Capabilities brochure. **TURCK** is a worldwide leader in industrial automation with the industry's broadest line of connectors, cables and cordset products. **TURCK** connectivity products connect the sensing devices to higher-level control components - and much more!

This brochure contains our standard connectivity products from M5 to M40 connectors, network media, cable and wiring examples, and a sampling of custom solutions we've done for customers in the past.

TURCK



How would you like to connect?

**ENDLESS POSSIBILITIES,
ONE MANUFACTURER.**

M5 - *pentafast*®

M8 - *picofast*®

M12 - *eurofast*®

1/2" - *microfast*®

7/8", 1", 1-1/8" - *minifast*®

M16 - *versafast*®

M23, M27 - *multifast*®

M16, M23, M40 - *powerfast*®

Network Media

Custom Solutions

Process Automation

See what we've done...

...challenge us to something new.



1

M5 Thread

- 3 and 4-pin
- 125 V, 1 A

2

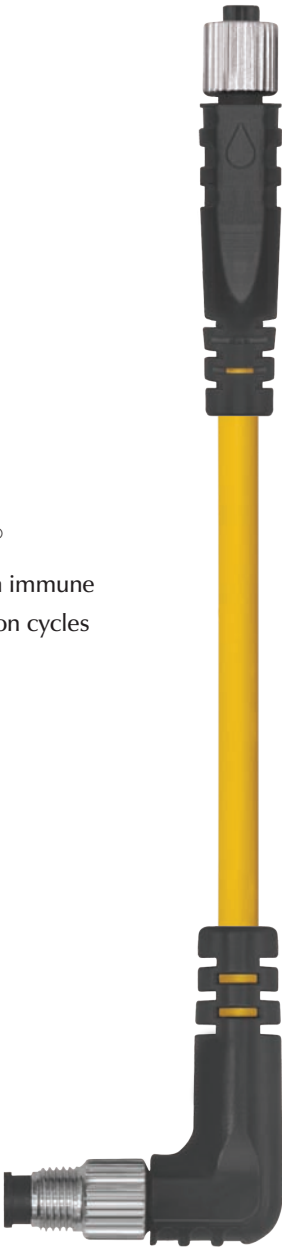
PUR *flexlife*[®]

- Cut/abrasion immune
- Over 2 million cycles

3

M5 Thread

- 3 and 4-pin
- 125 V, 1 A



M5 - pentafast[®]

M5 - pentafast[®]



M8 Thread

- 3, 4, and 6-pin
- 125 V, 2 A to 125 V, 4 A

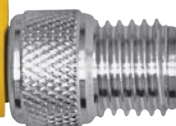
PUR *flexlife*® -20

- Cut/abrasion immune
- Over 20 million cycles



M8 Thread

- 3, 4, and 6-pin
- 125 V, 2 A to 125 V, 4 A



7

M8 Snap Lock (Locking Sleeve)

- 3, 4, and 6-pin
- 125 V, 2 A to 125 V, 4 A



8

PUR Shielded

- EMI/RFI protection
- Cut/abrasion immune



9

M8 Snap Lock with LEDs

- 10 VAC/20 VDC, 2 and 4 A
- PNP and NPN Signals



M8 - picofast®

M8 - picofast®

M8 Connector to Splitter

- 125 V, 4 A



Compact M8 Splitter with Mounting Hole

- Simple connector or connector with extension cable

M8 Connector Branches from Splitter

- 125 V, 4 A

13

M12 Thread

- Accepts 20, 22 and 24 AWG wires
- 2-6, 10 and 12-pin
- 60 VAC/75 VDC, 2 A to 250 VAC/300 VDC, 4 A



14

PVC *flexlife*®

- Over 2 million cycles



15

M12 Thread

- Accepts 20 and 22 AWG wires
- 3 and 4-pin
- 250 V, 4 A



M12 - eurofast®

M12 - eurofast®



M12 Thread

- Accepts 18, 20, 22 and 24 AWG wires
- 2, 6, 8, 10 and 12-pin
- 60 VAC/75 VDC, 2 A to 250 V, 4 A

PUR-Shield and Double Jacket

- Braided shield
- Cut/abrasion immune



M12 Thread

- Accepts 18, 20, 22 and 24 AWG wires
- 3-6, 8, 10 and 12-pin
- 60 VAC/75 VAC, 2 A to 250 V, 4 A

19

M12 Armored

- Shield tied to coupling nut
- 3, 4 and 5-pin
- 250 V, 4 A

20

PVC Armor

- Tray rated

21

M12 Armored

- Shield tied to coupling nut
- 3, 4 and 5-pin
- 250 V, 4 A



M12 - eurofast®

M12 - eurofast®

M12 with LEDs

- 3, 4 and 5-pin
- 10-30 V, 4 A
- PNP and NPN signals

**Irradiated PVC**

- Weld flash immune
- High temperature immune

**M12 316
Stainless Steel**

- Hex coupling nut
- 2-6, 10 and 12-pin
- 60 VAC/75 VAC,
2 A to 250 VDC,
4 A



25

**M12 Reverse Key
(B-Code)**

- 3 and 5-pin
- 250 V, 4 A



M12 - eurofast®

26

PVC Grey *flexlife*®

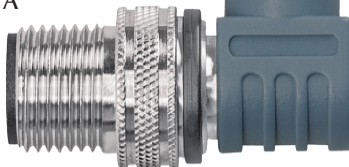
- Commonly used with reverse key (B-code) connectors
- Over 2 million cycles



27

M12 Reverse Key (B-Code)

- 3 and 5-pin
- 250 V, 4 A



M12 - eurofast®



M12 Incremental Encoder Connector

- 3 indicator LEDs
- 8-pin
- 5-30 VDC

PVC Shielded

- RFI/EMI protection
- Differential and single ended mode applications



M12 Incremental Encoder Connector

- Shield tied to coupling nut
- RFI/EMI protection
- 8-pin
- 60 VAC/75 VDC, 2 A

31

1/2" Thread

- Accepts 20 and 22 AWG wires
- 3, 4, 5 and 6-pin
- 250 V, 4 A



1/2" - microfast®

32

PUR Coil Cord

- For repetitive motion



33

1/2" Thread

- Accepts 18 AWG wires
- 2, 3 and 5-pin
- 250 V, 4 A



1/2" - microfast®

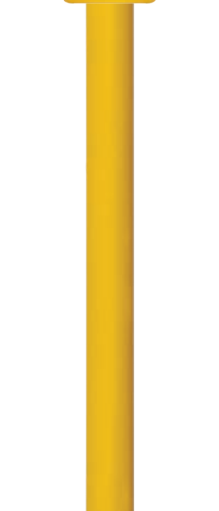


7/8" Thread

- Accepts 18 AWG wires
- 2 through 6-pin
- 300 V, 9 A

TPE *weldlife*®

- STOW rating
- Weld flash immune



7/8" Thread

- Accepts 16 AWG wires
- 2 through 6-pin
- 600 V, 9 A



37

7/8" Armored

- Shield tied to coupling nut
- 2 through 6-pin
- 600 V, 9 A



38

PVC Armor

- Tray rated

39

7/8" Armored

- Shield tied to coupling nut
- 2 through 6-pin
- 600 V, 9 A

7/8" - minifast®

7/8" - minifast®



Wash Down Connector

- Wash down mold material and contact holders
- Standard or with shielding



Wash Down Cable

- Polypropylene cable jacket
- Flame retardant



Wash Down Connector

- Wash down mold material and contact holders
- Standard or with shielding

43

1" Thread

- Accepts 16 AWG wires
- 6, 7 and 8-pin
- 600 VAC/VDC, 8 A



44

CPE Rubber

- SOOW rating
- Weld flash immune
- Flame immune



45

1-1/8" Thread

- Accepts 16 AWG wires
- 9, 10 and 12-pin
- 600 VAC/VDC, 7 A



1" - minifast®

1-1/8" - minifast®



M16 Thread

- Accepts 18, 22, 24 and 26 AWG wires
- 5-8, 12, 14 and 19-pin
- 30 V, 3 A to 125 V, 8 A

TPE *flexlife*®

- Over 2 million cycles



M16 Thread 48

- Accepts 18, 22, 24 and 26 AWG wires
- 5-8, 12, 14 and 19-pin
- 30 V, 3 A to 125 V, 8 A

49

M23 Thread

- Shield tied to coupling nut
- 7, 12 and 19-pin
- 150 V, 9 A to 300 V, 20 A



50

PVC Shielded

- EMI/RFI protection
- Tray rated



51

M23 Thread

- Shield tied to coupling nut
- 7, 12 and 19-pin
- 150 V, 9 A to 300 V, 20 A



M23 - multifast®

M23 - multifast®



M23 Thread

- 12, 16 and 19-pin
- 150 V, 9 A to 300 V, 20 A

PVC NAMUR

- Tray rated



M23 Thread Push-Pull Connection

- 12 and 19-pin
- 150 V, 9 A to 300 V, 6 A



55

M27 Thread

- 26 and 28-pin
- 150 V, 5 A



56

PVC Multiconductor

- 25 and 27-wire



57

M27 Thread

- 26 and 28-pin
- 150 V, 5 A



M27 - multifast®

M27 - multifast®



M16 Thread - Power

- Accepts 12 and 14 AWG wires
- Shielding available
- 2, 3 and 4-pin
- 600 V, 15-18 A

PVC - High Current

- Tray rated -
exposed run
- Shielding available
- Up to 18 A



M16 Thread - Power 60

- Accepts 12 and 14 AWG wires
- Shielding available
- 2, 3 and 4-pin
- 600 V, 15-18 A

61

M23 Thread - Power

- Accepts 12, 14 and 18 AWG wires
- 3-key
- Shielding available
- 6 and 8-pin
- 600 V, 30 A



62

PVC - High Current

- Tray rated - exposed run
- Shielding available
- Up to 30 A



63

M23 Thread - Power

- Accepts 12, 14 and 18 AWG wires
- 3-key
- Shielding available
- 6 and 8-pin
- 600 V, 30 A

M23 - powerfast®

M23 - powerfast®

64



M40 Thread - Power

- Accepts 8 AWG wires
- 4 and 8-pole (shielded)
- 600 V, 40 A

65

PVC - High Current

- Shielding available
- Up to 40 A



66

M40 Thread - Power

- Accepts 8 AWG wires
- 4 and 8-pole (shielded)
- 600 V, 40 A



67

PROFIBUS®-DP D-Sub Connector

- Integrated terminating switch
- Right angle and master connection option
- 250 V, 5 A



68

PROFIBUS®-DP Cable

- Meets requirements of EN50170-2-2:1996 for communications up to 12 Mbaud
- PVC, PUR and TPU cable jackets
- Braided over foil shield
- Aluminium armor option



69

M12 PROFIBUS®-DP Connectors

- 5-pin
- 250 V, 4 A
- Standard reverse key
- Shielded-tied to coupling nut



5-pin Diagnostic Connector for DeviceNet™

- Nylon housing
- 250 V, 12 A

DeviceNet™ Cable, 5-wire

- Meets ODVA requirements of type I (thin), type II (thick), and type III (mid)
- Braided and/or foil shield
- PVC, PUR, TPE cable jacket

M12 Thread DeviceNet™

- 5-pin
- 250 V, 4 A



73

RJ45 Connector

- For Ethernet connections
- 42 V, 1.5 A
- Shielded and economy version options



74

Ethernet Cable, 8-wire

- Meets TIA/EIA 568-B, 2 category 5e cable for 10 and 100 Base-T Ethernet
- PVC jacket, braided and/or foil shield
- Armored option



75

M12 Bulkhead Connector

- 8-pin
- 60 V, 2 A





TURCK Sensor

- Connected to commercial style connector

Jacket Options for any Environment



Commercial Style Connector

- Connected to TURCK Sensor

79

**TURCK Sensor
with *weldguard*[®]
Protective Face**

- Resists weld slag
- Integral extension cable with silicone tubing



80

**Protective Silicone
Tubing with Heat
Shrink to Cable**

- Protects from weld slag



81

M8 Thread

- Connected to **TURCK** sensor
- Multiple connector styles available





Valve Connectors

- Use 9.4 to 18 mm cable
- M8 to 7/8" connector extensions
- Field wireable styles
- Custom print labels

Private Label



Insulated Ferrules

- Multiple color and AWG size options
- Provides cleaner connection
- Private labeling on wires

85

D-Sub Molded or Assembled Connectors

- Connected to TURCK connector
- 9, 15 and 25-pin



Custom Solutions

86

Jacket Diameters from 3.5 mm to 18.5 mm

87

M23 Connector

- Connected to D-Sub Connector



Custom Solutions

Approvals

- FM, UL, CSA approvals available



Heat Shrinking of Wires



Ring Terminal and Ferrules

- Any combination



91

TURCK Sensor

- Connected to automotive style connector



Custom Solutions

92

Wire Gauge Ranges from 8 to 26

93

Automotive Style Connector

- Stabilizing pin
- Connected to TURCK sensor



Custom Solutions

TURCK Sensor

- Connected to automotive style connector



2 to 27 Conductors, Braided or Foil Shields



Automotive Style Connector

- Connected to TURCK sensor



97

TURCK Sensor

- Custom pad printing and color
- Connected to automotive style connector



Custom Solutions

98

Spoiled Cable in 30, 100 or 200 Meter Lengths



99

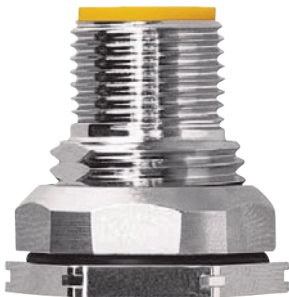
Automotive Style Connector

- Connected to
TURCK sensor

Custom Solutions

M12 Receptacles

- **TURCK** offers over 40 styles of M12 receptacles
- Front mount, rear mount, solder cups, PCB mount and more
- Connected to commercial style connector

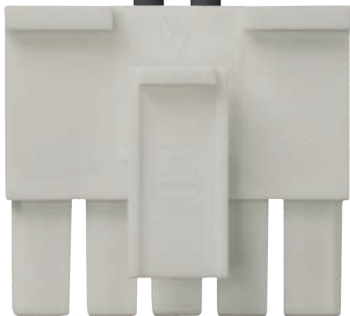


Ferrite Tubing



Commercial Style Connector

- Connected to **TURCK** M12 receptacle



103

Closure Cap

- Nickel plated brass or stainless steel
- For cordsets or receptacles
- With or without lanyards

104

Closure Cap Lanyards

105

Fork Terminals

- Connected to **TURCK** connector
- Private labeling on wires

106

Nylon Coupling Nut

- **TURCK** offers nickel plated brass, nylon and 316 stainless steel coupling nut options



107

TURCK Can Process Your Cable



108

USB Connector

- Connected to **TURCK** connector



109

**Multiple Connector
Mold Colors**



Custom Solutions

110

Custom Cable Colors



111

Pigtail Option



Custom Solutions

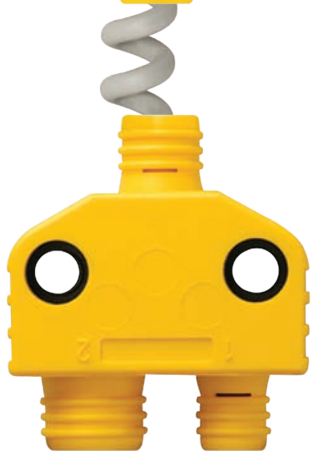
M12 Connector to Splitter

- Choose from integral connector or connector with extension cable



3 Branch Molded Splitter

- 2 and 4 branch options
- LED options
- Standard, series or parallel wiring
- Custom hot stamp printing
- Coil Cord



Multiple Thread Types and Mold Colors

- 1/2" and M12 threads
- M12 thread reverse key (B-code)



115

**Molded on
Amp Connector**

- Connected to TURCK connector



116

**UL Recognized and
CSA Approvals**



117

**PVC Plug Body and
Contact Holders**

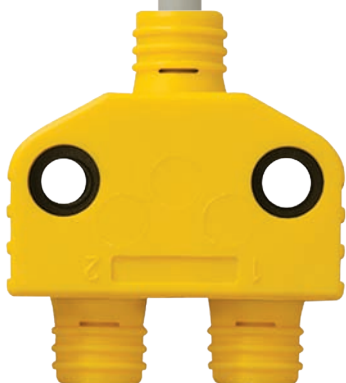
- Excellent resistance to wash down chemicals
- Available in numerous connector styles





Right Angle Connector

- Right angles available in all thread types



2 Branch Molded Splitter

- 3 and 4 branch options
- LED options
- Standard, series or parallel wiring



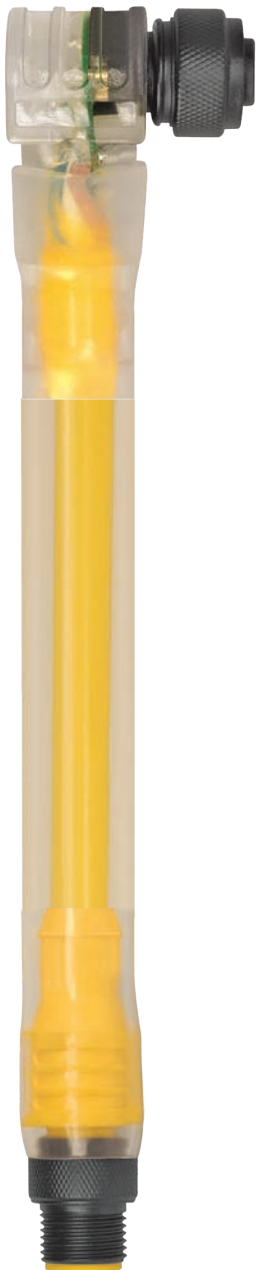
Molded on Automotive Style Connectors

- Multiple cable jacket colors
- Connected to TURCK splitter

121

Weld Protection

- Weld slag resistant silicone tubing
- Teflon coated coupling nut



Custom Solutions

122

Silicone Tubing

- Excellent weld slag resistance

123

Weld Protection

- Weld slag resistant silicone tubing
- TPE mold body
- Teflon coated coupling nut

Custom Solutions



Expandable Fiberglass Sleeving

- “Heat shrink” like fit
- Abrasion, moisture, cut-through and chemical resistance
- -55 °C to +200 °C



Expandable Fiberglass Sleeving

- “Heat shrink” like fit
- Abrasion, moisture, cut-through and chemical resistance
- -55 °C to +200 °C



AC Wall Plug

- Connected to TURCK connector

127

Stainless Steel Coupling Nut

- Nickel plated brass and nylon coupling nuts available



128

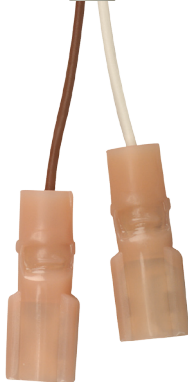
Over 400 Different Cable Styles



129

Insulated Spaid Terminals

- Connected to **TURCK** connector



130



Spaid Terminals on Private Labeled Wires

- Connected to M16 connector

131



Cable Gland

M16 Thread 132

- Available in 5, 6, 7, 8, 12, 14 and 19-pin
- Spaid terminals connected on opposite end



133

Hybrid Cordsets

- Combine multiple thread sizes in one cordset
- Our project engineers will assist you



134

Mix and Match

- M23 on one end, M16 thread on the other end



135

Hybrid Cordsets

- Combine multiple thread sizes in one cordset
- Our project engineers will assist you



136

Commercial Style Connector



137

Multiple Cable Branches

- Two cables from commercial style connector to two different receptacle types



138

Combine Multiple Receptacles

- Numerous receptacle styles in all thread sizes

M16 Connectors to Drop Tee



140

Drop Tee

141

Commercial
Style Connector





Overmolded Receptacle












Process Connectivity

- 2-wire analog or HART control circuits
- Additional analog or discrete control circuits
- NAMUR circuits
- *extremelife*[®] marine cable

M23 Home Run Connector with Set Screw Locks

- For Class I, Division 2 hazardous locations
- Render a connection not normally arcing



- eurofast*® — 
- picofast*® — 
- pentafast*® — 
- microfast*® — 
- minifast*® — 
- versafast*® — 
- multifast*® — 
- powerfast*® — 
-  — Network Media
-  — Custom Solutions
-  — Process Automation

CONNECT IT YOUR WAY

Our experienced
engineers are ready
to assist you



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www-turck-com

....Sense It!....Connect It!....Bus It!....Solve It!