



Hybrid Connectivity

Power4Net Hybrid Connector for Industrial Automation

TE Connectivity's (TE) Power4Net hybrid connector with 8 power and 4 signal contacts has been designed for machine automation applications that require a higher performance data connection and power of up to 10 A. The connector provides highly reliable connection technology and meets the demanding durability and quality requirements of real-time Ethernet applications in industrial automation. Combining power supply and signal into one single connector provides customers with greater flexibility in machine architecture. With VARAN-bus standard compatibility, the connector supports, for example, fast change over times of molds in molding machines, and simplified cabling reduces installation time by up to 50%.



KEY FEATURES

- Hybrid design, combining power and data communication
- Housing with 8 power contacts and fast Ethernet interface
- Optional housing with 11 + PE (Protection Earth) contacts
- Wire-to-board, wire-to-panel and wire-to-wire designs
- Extremely robust contact design for longer durability with stainless steel locking lance and multiple contact points
- Gold, silver and tin plated contacts for industrial automation requirements
- Radial sealing elements provide IP67 sealing performance
- Hydraulic oil-resistant plastic enclosures or EMC protected metal enclosures
- Bulkhead, connector and wire-to-wire connectors in 90° and 180° designs
- Turning catch-lock ensures safe locking even in high shock and vibration applications

APPLICATIONS

- High-performance process control systems applications
- Machine automation applications
- Factory automation systems
- Control valves and control units
- Stand-alone or remote power units
- Railway systems and outdoor transportation control systems

MECHANICAL

- Shock: 25 g (DIN EN 50155)
- EMC: min -60dB to 1 GHz
- Isolation level: 1.5 kV AC
- Durability: 50 mating/un-mating cycles

ELECTRICAL

- Voltage: 60 V (pollution degree 3, according EN 61984)
- Ampacity: 10 A @ 40°C
- Operating temperature: -20°C up to +80°C
- Protection: IP67 (according to IEC 60529)
- Communication: Cat5e (ISO/IEC 11801 Edition 2.0 Connector Category 5)

MATERIALS

- Housings: Hydraulic oil-resistant plastic or EMC protected metal
- Contacts: Copper alloy with gold, silver and tin plated versions
- Interfacial and wire entry seals: UV protected silicone

STANDARDS

- Meets VARAN standard (Versatile Automation Random Access Network), an Industrial Ethernet based protocol used in factory automation
- Cat5e fast Ethernet (ISO/IEC11801)
- DIN EN 61984
- SIL-3, IEEE61508, PL e

PRODUCT OFFERING

Part Number	Description
0-1103426-1	Communication Male (HC.26.Sti.4.C.4,4)
0-1103427-1	Communication Socket (HC.26.Bu.4.C.4,4)
0-1103427-2	Communication Socket (HC.26.Bu.4.C.5,2)
0-1103428-1	Male Insert HC.26, 8-pos., Type III+
0-1103428-2	Male Insert HC.26, 8-pos., Type III+
0-1103428-3	Male Insert HC.26, 8-pos., Type III+
0-1103429-1	Female Insert HC.26, 8-pos., Type III+
0-1103430-1	Male Insert HC.26, 4-pos., 22DF, PCB
0-1103431-1	Male Insert HC.26, 12-pos., Type III+
0-1103432-1	Female Insert HC.26, 12-pos., Type III+
0-1103432-2	Female Insert HC.26, 12-pos., Type III+
0-1103433-1	Bulkhead Housing HC.26 (plastic)
0-1103434-1	Angled Connector Housing HC.26 (plastic)
0-1103434-2	Angled Connector Housing HC.26 (plastic)
0-1103434-3	Angled Connector Housing HC.26 (plastic)
0-1103434-4	Angled Connector Housing HC.26 (plastic)
0-1103436-1	Bulkhead Housing HC.26 (metal)
0-1103437-1	Angled Connector Housing HC.26 (metal)
0-1103439-1	Coupling Housing HC.26 (metal)
0-1103440-1	Connector Housing HC.26 (metal)
0-1103467-1	Connector Housing HC.26 (plastic)
0-1103470-1	Coupling Housing HC.26 (plastic)
0-1103483-1	Accessory Kit Sealing Straight HC.26 (plastic)
0-1103483-2	Accessory Kit Sealing Straight HC.26 (metal)
0-1103519-1	Accessory Kit Sealing Angled HC.26 (plastic)
0-1103519-2	Accessory Kit Sealing Angled HC.26 (metal)
0-1103536-1	Cat5e Hybrid Cable, PE Jacket
0-1103536-2	Cat5e Hybrid Cable, PUR Jacket
0-1103536-3	Cat5e Hybrid Cable, PVC Jacket
0-1108846-1	Bulkhead Housing PCB Solder Unit HC.26 (metal)

SPECIFICATIONS

- Product specification 108-74097
- Application specification 114-74103

APPLICATION TOOLING

Tool	Part Number	Description
Wire Stripper and Cutter	0-149049-1	Economy
	0-734185-1	Automatic
	0-501198-1	Cable Stripper for HD-LWL
Crimping Tool Type III+ Series	0-58495-1	PRO-CRIMPER Hand Tool
	0-91519-1	Straight Action Hand Tool
Crimping Tool Contact 22 DF	0-90800-1	PRO-CRIMPER Hand Tool
Crimping Tool Ethernet	6-1579014-0	Hand Crimp Tool for Circular Ethernet Connector
	2-1579016-3	Lower Die for Hand Crimp Tool
	2-1579025-6	Locator for Hand Crimp Tool
Crimping Tool Contact LWL (Optics)	0-0090364-2	Hand Tool
	0-0090364-2	Melting Gauge Long Contact
	0-0100281-2	Melting Gauge Short Contact
	0-0734423-1	Hot Melting Unit
Crimping Tool Sub-Min Coaxial	0-69656-1	Hand Tool
Insert / Extraction Tool	0-1102855-6	Insertion Tool Contact Type III+ and Contact LWL (Optics)
	0-0200893-1	
	0-1102855-1	Extraction Tool Contact Type III+ and Contact LWL (Optics)
	0-0539972-1	
Extraction Tool	9-1579018-7	Extraction Tool Pin Insert 1103426
	9-1579018-8	Extraction Tool Socket Insert 1103427
	9-1579018-9	Extraction Tool Socket/ Pin Insert 1103428/1103429/1103431/1103432

FOR MORE INFORMATION

te.com/products/Power4Net

TE Technical Support Center

Internet:	te.com/help
Austria:	+43-1-9056-0
Canada:	+1-800-522-6752
China:	+86-400-820-6015
France:	+33-1-3420-8686
Germany:	+49-6151-607-1999
Italy:	+39-011-4012111
Latin/S. America:	+54-11-4733-2200
Mexico:	+52-55-1106-0800
Netherlands:	+31-73-6246-999
Nordic:	+46-8-5072-5000
Spain / Portugal:	+34-932-910-330
Switzerland:	+41-71-447-0447
UK:	+44-800-267666
USA:	+1-800-522-6752

Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.te.com/leadfree

te.com

© 2011 Tyco Electronics Corporation, a TE Connectivity Ltd. company. All Rights Reserved.
1773463-1 CIS WR 11/2011

Power4Net, PRO-CRIMPER, TE Connectivity and the TE connectivity (logo) are trademarks
of the TE Connectivity Ltd. family of companies.

Other logos, product and Company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

