

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



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, IEC61508, 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

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*as defined www.te.com/leadfree

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