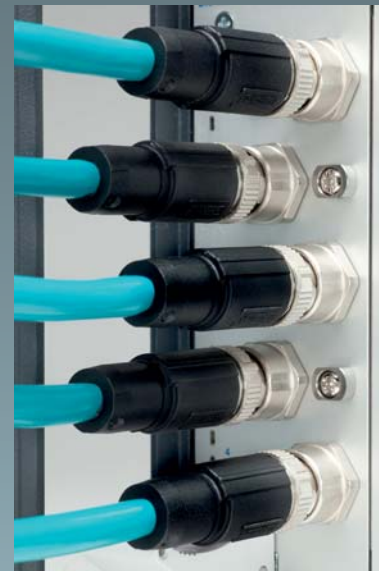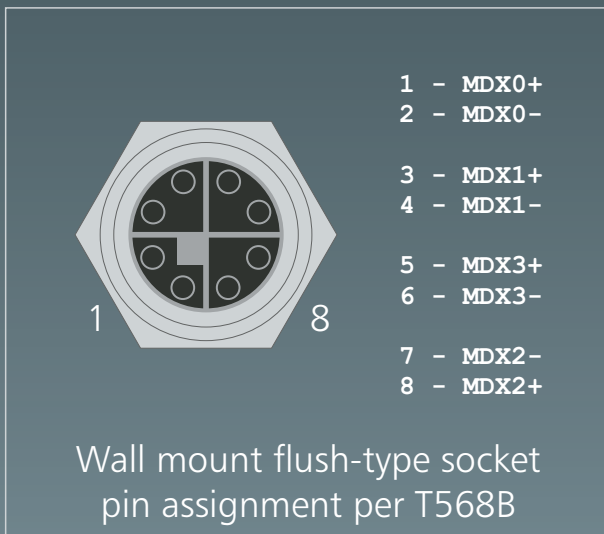**EKF SYSTEM**

1GB / 10GB Ethernet
M12 X-Coded
8-Lead Connector Basics

- For 1GB and 10GB Ethernet, the 8-lead M12 X-coded circular connector will replace the legacy 100Mbps 4-pin M12 D-coded socket
- Superiour signal integrity, IP67 protection, -40°C to +85°C, rail approved
- M12 X-coded connectors and cable assemblies available e.g. from Escha, Metz, Phoenix, Harting, Molex, Weidmüller, Conec, and Belden/Lumberg
- CompactPCI® Classic products with M12-X available (www.ekf.com/c/cnic/cnic.html)
- CompactPCI® Serial products with M12-X available (www.ekf.com/s/serial.html#SL)
- 1GB Industrial Ethernet popular now, Cat6A cable installation ready for forthcoming 10GB Ethernet

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1GB / 10GB Ethernet
M12 X-Coded
8-Lead Connector Basics

1 – MDX0+
2 – MDX0−

3 – MDX1+
4 – MDX1−

5 – MDX3+
6 – MDX3−

7 – MDX2−
8 – MDX2+

1   8

Wall mount flush-type socket
pin assignment per T568B

- Any signal pair shielded against each other
- Equal pin length on any connector position
- M12 to M12 cable assemblies available
- M12 to RJ45 cable assemblies available
- Cable connectors straight and 90°
- IEC DIN-EN 61076-2-109 compliant
- Cat6A cabling recommended

www.ekf.com/c/cnic/cl2/cl2.html

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1GB / 10GB Ethernet
M12 X-Coded
8-Lead Connector Basics

- Industrial & transportation networking
- GbE switches
- GbE networking controllers (NIC)
- CompactPCI® Serial
- CompactPCI® Classic
- Custom specific development

www.ekf.com/s/sn2/sn2.html

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For Railway Application