Internet of Things –
Connectivity Solutions

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"Internet of Things" is one of the main terms used to define continued change today. Hidden behind this, we are witnessing the digitalization of products, production technology and processes. From this foundation Industry 4.0 has evolved. Here, all areas of industry are networked and both people, machines, and products communicate with one another.

Ethernet based data transmission is a basic requirement for the Internet of Things and Industry 4.0. Within most Industrial Ethernet systems one of the following protocols is most commonly used – PROFINET, EtherNet/IP, EtherCAT, Modbus TCP, POWERLINK.

METZ CONNECT now offers a range of PCB connector solutions suitable for Industrial Ethernet applications as an interesting alternative to the RJ45 or M12 pluggable solutions.

The features and benefits include cost advantages of a direct connection to the PCB connector and the connector colour coding possibilities for different Ethernet applications. METZ CONNECT 4-pole connector solutions cater for 10/100 Mbit/s Ethernet data rates, the 8-pole solutions up to 10 Gbit/s

METZ CONNECT Device level connectivity solutions offer many different future proof solutions for these applications.
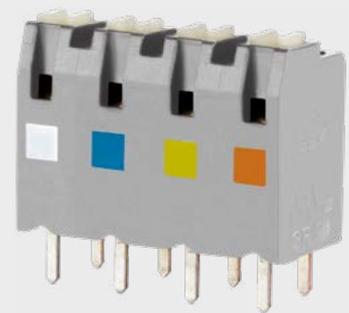
Colour coding

Terminal blocks
with coloured single poles
solderable variants

Terminal blocks
with coloured single poles
pluggable variants

Terminal blocks with printing
(base colours or numbering)
solderable or pluggable variants

Benefits

> connectivity for IoT-devices
> suitable for Industrial-Ethernet-Systems e.g. PROFINET, EtherNet/IP, EtherCAT, etc.
> up to 10 Gbit/s data transmission

> cost-efficient solution
> simple handling and colour coding
> easy assembling without special tools

PRODUCT NAME	P/N	IMAGE
TERMINAL BLOCKS		
IT02304HDNU000 PROFINET	AIT0230499-000	
SP02505HMNC000 Profinet	ASP0250599-000	
SP06605VAPC000 DeviceNet	SP06605VAPC000	
SM99 creme white	SM99S01VBNN01G7	
SM99 blue	SM99S01VBNN05G7	
SM99 yellow	SM99S01VBNN02G7	
SM99 orange	SM99S01VBNN06G7	
SR99 creme white	SR99S01VBNN01G7	
SR99 blue	SR99S01VBNN05G7	
SR99 yellow	SR99S01VBNN02G7	
SR99 orange	SR99S01VBNN06G7	
Megabit terminal block	EP31S04ZDNN00I1	
M12 PLUGS		
field plug D-coded, straight	MNF881A115	
M12 JACKS		
solderable 90° 4-pole, D-code, < 5 mm wall thickness	MMT471A115-0002	
solderable 90° 4-pole, D-code, < 4 mm wall thickness	MMT471A115-0001	
solderable 90° 4-pole, D-code, < 2,5 mm wall thickness	MMT471A115	
solderable through hole mounting 4-pole, D-code	MMW370A1A1	
solderable front mounting 4-pole, D-code	MMW360A1A1	
RJ45 PLUGS		
C5 RJ45 field plug pro 2P PROFINET	130E405032PE	
C5 RJ45 field plug pro 2P 360 PROFINET	130E405042PE	
RJ45 JACKS		
AJT33L, 8P/8C	AJT33L8813-014	
AJS59L, 8P/8C	AJS59L8813-0312	
AJT74B, 8P/8C	AJT74B8813	

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