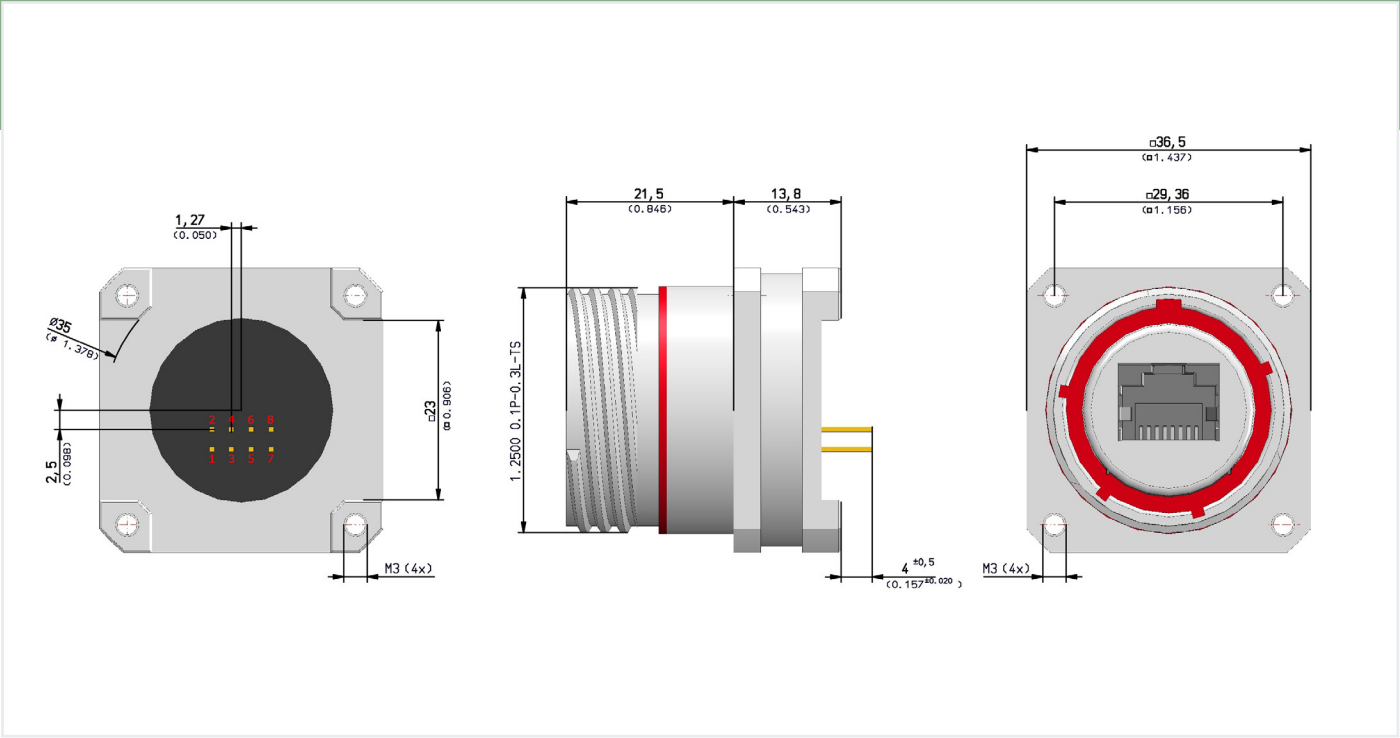


X1-SERIES - RUGGED ETHERNET CONNECTIONS

RJ45 CAT6A PCB PIN HEADER – DOUBLE FLANGE X1-9816



INFORMATION

All dimensions in
mm (inch) unless
otherwise specified.

Shell derived from D38999

PN: X1-9816
Datasheet Version: 1.0

CATALOG:

Harsh Environment
Data Connectivity Solutions



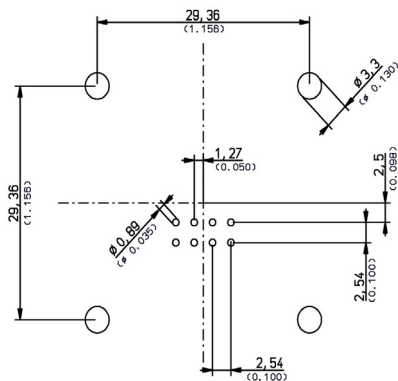
Table A: Material & Plating

Material & Plating Code	Technical Design	ROHS-/REACH Compliant	Electrically Conductive	Salt Spray Resistance according to MIL spec.	Salt Spray Resistance according to VG spec.
V	Tin-Zinc grey Base material: Al-alloy Tin-Zinc over electroless Nickel	Yes	Yes	500 hrs	5 day cyclic
5	Electroless Nickel Base material: Al-alloy	Yes	Yes	48 hrs	n.a.
2	Zinc-Nickel black Coupling ring: Al-alloy, black anodized Shell: Zinc-Nickel black chromate over electroless Nickel	Yes	Yes	500 hrs	n.a.
6	Cadmium olive drab Coupling ring: Al-alloy, olive drab anodized Shell: Al-alloy Cadmium plated olive drab over electroless Nickel	No	Yes	500 hrs	5 day cyclic
9	Marine Bronze Base material: Marine Bronze CuAl10Ni5Fe4 (CW307G) Shotblast, nonreflective	Yes	Yes	n.a.	n.a.
1	Stainless Steel / passivated	Yes	Yes	n.a.	n.a.

Performance

Voltage rating AC/DC	35 V / 50 V
Temperature	-40 °C to +120 °C
Mating cycles	>500
Data transmission	10 Gbit/s (500 Mhz)
Pin mapping	See drawing

Ground of RJ45s connected to housing.



Materials

RJ45 housing	Thermoplastic UL94 V-0
RJ45 shield plating	Tin or Nickel
RJ45 shield	Copper alloy
Contacts plating	Selective Gold (1,27µm)
Contacts	Copper alloy
Housing	See option material
PCB	FR4, UL94V-0
Pin header contact plating	Gold

For details about keyway polarization and RJ45 orientation see table 1 and 2 in the full „Harsh Environment Data Connectivity Solutions“ catalog on page 28/29.

NOTE: Orientation of pin header will always change together with RJ45 orientation.

How to order

Table X1-9816 - 19 - 5 N 0

Basic part number	
Shell size	
Material & plating code	A
Keyway polarization	1
RJ45 orientation	2

ORDER EXAMPLE
X1-9816-19-5N0

CAT6A PCB PIN HEADER - DOUBLE FLANGE
SIZE 19
ELECTROLESS NICKEL
KEYWAY = N (STANDARD)
RJ45 POSITION = 0°

EMCA CONNECTOR SOLUTIONS GMBH

X1-9816 | Datasheet Version 1.0
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