

Basic features

Approval/Conformity	CE WEEE
Use	BML SGA

Electrical connection

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	10 x D
Cable	PUR Shielded Green, 5 m
Cable diameter D	6.95 mm ±0.15 mm
Cable, bending cycles min.	10 mil.
Cable, note	Ethernet, CAT 5
Conductor cross-section	22 AWG/25 AWG
Connection 1	M12x1-Female, straight, 8-pin, A-coded
Connection 2	RJ45-Male, straight, 10-pin
Number of conductors	6
System	Molded

Electrical data

Cable rated voltage DC max.	30 V
Conductor construction	3x2 twisted-pair
Conductor resistance	≤ 100 Ohm/km
Coupling resistance max.	1Ω /m at 100 MHz
Isolation resistance	≥ 1 GOhm x km
Line attenuation at 10 MHz max.	8.0 dB/100 m
Line attenuation at 100 MHz max.	27.0 dB/100 m
Operating capacitance	50 nF/km nom.
Surge impedance	100 Ohm ±15 Ohm at 1 MHz-100 MHz
Transfer rate	100 Mbit/s

Environmental conditions

Ambient temperature	-20...80 °C
Cable temperature, fixed routing	-20...80 °C
Cable temperature, flexible routing	-20...60 °C
IP rating	IP20

Material

Cable jacket material, note	Shielded
Cable jacket, material	PUR
Cable shield	Aluminum foil and copper braid
Material contact carrier	PUR
Material contacts	Bronze
Material grip	PUR

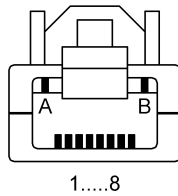
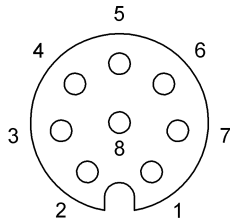
Mechanical data

Cable jacket, color	Green
Cable length L	5.00 m
Tightening torque pigtail	0.6 Nm/-

Remarks

Flame resistance per IEC 60332-1-2
 Halogen-free acc. to IEC 60754-1
 Cable construction acc. to UL-AWM Style 20236 and CSA FT 1

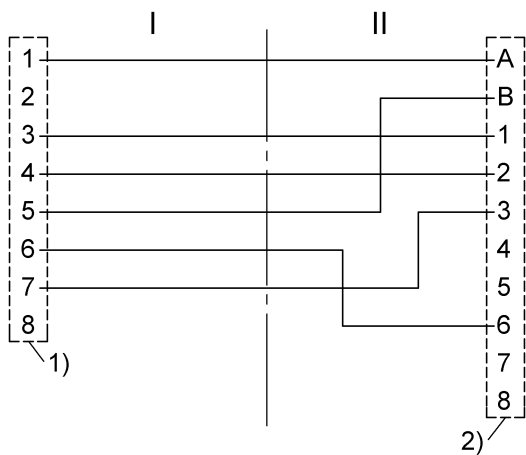
Connector Drawings



I
 PIN 1: red
 PIN 2: not used
 PIN 3: pink
 PIN 4: blue
 PIN 5: black
 PIN 6: yellow
 PIN 7: green
 PIN 8: not used

II
 PIN 1: pink
 PIN 2: blue
 PIN 3: green
 PIN 4: not used
 PIN 5: not used
 PIN 6: yellow
 PIN 7: not used
 PIN 8: not used
 PIN A: red
 PIN B: black

Wiring Diagrams



1) Shield on cover nut
 2) Shield on housing