

Basic features

Application	Profinet , CAT 5
Approval/Conformity	CE cULus WEEE UKCA

Electrical connection

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	15 x D
Cable	PUR Shielded Green, 0.3 m, drag chain compatible
Cable diameter D	6.70 mm ±0.30 mm
Cable, bending cycles min.	2 mil.
Cable, note	Profinet Type C, CAT 5E by IEC 61156-6
Conductor cross-section	22 AWG
Connection 1	M12x1-Male, straight, 4-pin, D-coded
Connection 2	M12x1-Male, straight, 4-pin, D-coded
Number of conductors	4
System	Molded/Molded

Electrical data

Cable rated voltage AC max.	300 V
Cable rated voltage DC max.	300 V
Conductor resistance	(AWG 22) 55 Ohm/km at 20 °C
Isolation resistance	≥ 500 MOhm x km
Operating voltage Ub	60 VDC
Operating voltage max. DC (UL)	42 V
Rated current (40 °C)	1.5 A
Surge impedance	100 Ohm ±5 Ohm at 100 MHz
Transfer rate	10/100 Mbit/s

Environmental conditions

Cable temperature, fixed routing	-40...80 °C
Cable temperature, flexible routing	-20...60 °C
IP rating	IP67/IP67

Material

Cable jacket material, note	Shielded
Cable jacket, material	TPU
Cable shield	Aluminum foil and copper braid
Material contact carrier	PUR/PUR
Material contacts	Gold plated/Gold plated
Material cover nut	Die-cast zinc nickel-plated/Die-cast zinc nickel-plated
Material grip	PUR/PUR
Material locking screw	Die-cast zinc

Double-Ended Cordsets
BCC M414-M414-6D-331-PS54N2-003
Order Code: BCC0JF7



Mechanical data

Acceleration max., drag chain	2 m/s ²
Cable jacket, color	Green
Cable length L	0.30 m

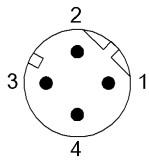
Cable properties

Horizontal travel permitted, drag chain	5 m	drag chain compatible
Tightening torque pigtail	0.6 Nm/0.6 Nm	
Traverse speed max., drag chain	200 m/min	
Vertical travel permitted, drag chain	5 m	

Remarks

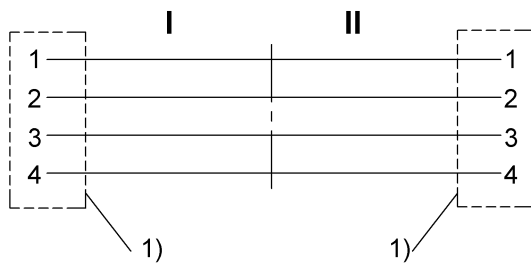
Cable construction acc. to UL-AWM Style 20549
Halogen-free per DIN VDE 0472 Part 815
Silicone-free
Flame resistance VW-1/FT1
Enclosure rating per IEC 60529, only in screwed state with the associated mating piece.
360° shield on cover nut

Connector Drawings



I, II
PIN 1: yellow
PIN 2: white
PIN 3: orange
PIN 4: blue

Wiring Diagrams (Schematic)



1) Shield on cover nut