

# TECHNICAL NOTE



## CHANGES IN CD12M/0B CONNECTION CABLES

DATASENSING s.r.l. have been constantly working to offer their partners and customers the best products at the best possible service.

For this reason, during 2022, we are proceeding to change the M12, 4 poles, PVC cables:

Female M12 plug

- **CD12M/0B-xxxA1**: M12 connector, 4 poles, axial, PVC
- **CD12M/0B-xxxC1**: M12 connector, 4 poles, 90°, PVC



**Product Marketing Manager:** Giovanni Dilorenzo  
giovanni.dilorenzo@datasensing.com  
**Sensor & Safety Application Engineer Manager:**  
Luca Mazzetti  
luca.mazzetti@datasensing.com  
**Customer Administration Manager:** Raffaella Casini  
raffaella.casini@datasensing.com

HOUSING DATA	NEW MODEL	CURRENT MODEL
Standard	IEC 61076-2-101	
Rated voltage	250 V	
Rated current	4 A	
Insulation	≥100 MΩ (IEC60512)	-
Contact resistance	≤10 mΩ	-
Fixing screw torque	0,5 ÷ 0,8 Nm	0,6 Nm
Temperature range	-25° C ÷ +80° C	-25° C ÷ +85° C
Housing color	Black	
Protection class	IP67	
Contact material	CuSn gold plated	-
Mounting	Anti-vibration system	-
Overmoulding material	TPU (Polyurethane)	PUR
Coupling nut material	CuZn nikel plated	
O-Ring material	FKM (Viton)	-
Contact holder material	PA + GF	-

<b>CABLE DATA</b>	<b>NEW MODEL</b>	<b>CURRENT MODEL</b>
Material	Bare copper	
Stranding	32 x 0,10 mm	19 x 0,15 mm
Section	0,25 mm <sup>2</sup> / 24 AWG	0,34 mm <sup>2</sup> / 22 AWG
Electrical resistance	< 76,33 Ωxkm (IEC60344)	< 60 Ωxkm
Conducibility	100% IACS	-
Copper standard	EN13602-ETP1, DIN40500 E-Cu 58	-

### Conductor

Conductor n.	4	
Color	Brown – White – Blue – Black	
Diameter	1,25 ± 0,10 mm	1,25 ± 5%
Compound	PVC	
Hardness	96 ShA	45 ± 5 ShD
Lay	50 mm	-

### Jacket

Jacket material	PVC (IEC 60332-3-24 Cat.C)	PVC
Jacket color	Black (RAL9005)	
Hardness	75 ShA	85 ± 5 ShA
Diameter	4,50 ± 0,20 mm	5,0 ± 5%

### Technical data

Temperature range (static)	-25° C ÷ +70° C	-30° C ÷ +80° C
Temperature range (dynamic)	-5° C ÷ +60° C	-5° C ÷ +80° C
Bending radius	15 x O.D.	10 x O.D.
Oil resistant	ISO6722	-
Accordance to European Directives	2006/95/CE; 2004/108/CE; 2011/65/CE /ROHS)	-
Cable lenght	2 m (CD12M/0B-020A1 - CD12M/0B-020C1) 5 m (CD12M/0B-050A1 - CD12M/0B-050C1) 10 m (CD12M/0B-100A1 - CD12M/0B-100C1) 15 m (CD12M/0B-150A1 - CD12M/0B-150C1) 20 m (CD12M/0B-200A1 - CD12M/0B-200C1)	

# CONNECTION SCHEME AND DRAWINGS

