




# Sensor to sensor cable

## Smart Sensor 200 SERIES

 Halogen free
  Silicone free
  FCKW free



### Technical data

<i>Product properties</i>	
Product type	Sensor to sensor cable - Smart Sensor 200 SERIES
Number of positions	5
Application	Standard
Coding	A - standard

<i>Interfaces</i>	
Bus system	CANbus® / DeviceNet™
Signal type/category	CANbus®

### Connector

<i>Connector specification</i>	
Shielding	Shielded
Connector material	TPU
Connector color	Black
Locking nut material	Brass die-cast, nickel-plated
Tightening torque	0.5 Nm
Width across flats	13 mm

<i>Electrical specification</i>	
Rated voltage	48 V AC 60 V DC
Rated current	4 A

<i>Head 1</i>	
Head design	Plug
Head cable outlet	Angled
Head type	M12
Coding	A

<i>Head 2</i>	
Head design	Socket
Head cable outlet	Angled
Head type	M12
Coding	A

## Cable / line

<i>Cable / line</i>	
UL AWM Style	20233 (80°C / 300V)
Cable type	CANbus® / DeviceNet™, TPU, black
Cable structure	2xAWG24 + 2xAWG21 + 1xAWG21
Shielding	Shielded
Conductor cross-section (nom.)	2x 0.22 mm <sup>2</sup> (Data pair) 2x 0.50 mm <sup>2</sup> (Power pair) 1x 0.50 mm <sup>2</sup> (Drain wire)
Assembly, Data pair	Two cores twisted to a pair
Assembly, Power pair	Two cores twisted to a pair
Cable diameter	7.5 mm ± 0.2 mm
Jacket	TPU, hardness 90 ShA
Jacket color	Black (RAL 9005)
Shield covering	Nominal optical coverage 80%
Bending radius	Flex Fixed
Bending cycles	up to 2 Mio
Max speed	5 m/s
Max acceleration	3 m/s <sup>2</sup>
Conductor	Stranded bare copper wire

<i>Electrical specification</i>	
Nominal voltage, cable	300 V AC
Test voltage C/C	4000 V x 1min
Nominal voltage U <sub>N</sub>	48 V AC 60 V DC
Overvoltage category	III
Max conductor resistance (AWG24)	95.3 Ω/Km (IEC60344)
Max conductor resistance (AWG21)	40.9 Ω/Km (IEC60344)
Nominal impedance	120Ω @20MHz
Insulation resistance	> 100 MΩ x Km

<i>Ambient conditions</i>	
Degree of protection	IP65 IP67
Ambient operating temperature	Flex Fixed
UV resistant	Yes (UL 1581–300h)

<i>Chemical</i>	
Oil resistant	Yes
Silicone, Pb, Cd, Hg, FCKW free	Yes
Halogen free	Yes

<i>Flame</i>	
Flame resistant	UL Cable flame test; IEC 60332-1-2

<i>Approvals</i>	
CE	
UL	