

PRODUCT INFORMATION

AUTOMOTIVE ACCESSORIES

CABLES

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1 USER SAFETY WARNING

Please read the entire document carefully before using the device.

INSTALLATION

Please pay attention to the details below before installing and connecting the device:

- Only use provided or approved equipment for the operation.
- Only skilled and instructed persons shall install and connect the device.
- All connectors are pin-coded and fit in only one position.
- Be cautious when using the device on or around active roadways and pay attention to moving traffic.
- Make sure that test procedures are in accordance with local safety policies and procedures as well as company practices.

OPERATION

Do not operate the cable or any device connected to it is damaged.



Do not dispose electrical and electronic equipment in household trash.

TECHNICAL SERVICE

Only use provided or approved equipment for operation.

Do not attempt to service or repair this device:

- No user-maintainable parts are contained in the device.
- To avoid electrical shock, do not remove or open the cover.
- Unauthorized opening will void all warranties.
- smartmicro is not liable for any damages or harms caused by unauthorized attempts to open or repair the device.

3 PRODUCT SPECIFICATION

There are Plug & Play Cables available for every sensor model.

3.1 PLUG & PLAY CABLES

Plug & Play Cables allow for easily connecting a smartmicro sensor.

The following types are available:

Cable Type	Sensor Compatibility	Connecting To
Plug & Play Cable for UMRR-11 ¹	UMRR-11 Type 132	Power Supply, RS485 (half or full duplex), Ethernet, CAN
Plug & Play Cable for UMRR-96 ²	UMRR-96 Type 153	2x CAN, Sensor Power, BroadR Reach, Media Converter Power Supply

¹ Previously referred to as CABLE-0C0200

² Previously referred to as CABLE-FF0035 and successor of CABLE-FF0025

3.1.1 PLUG & PLAY CABLE FOR UMRR-11

The Plug & Play Cable for UMRR-11 (previously referred to as CABLE-0C0200) is compatible with the smartmicro automotive sensor UMRR-11 Type 132.

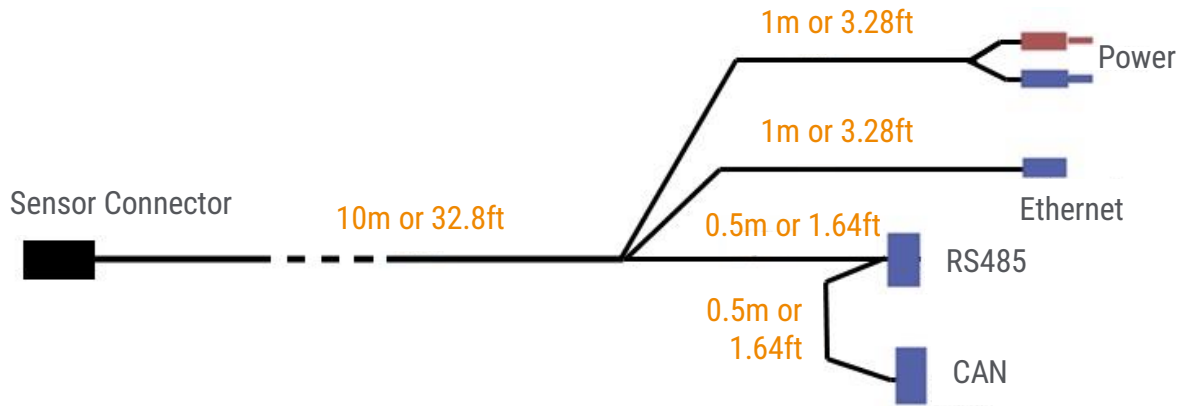


Illustration of the cable length and connectors

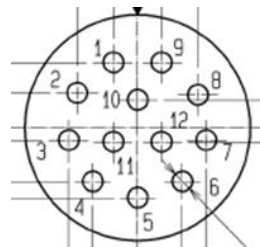
Product characteristics:

Parameter	Typical Values
Length	13m or 42.65ft (for details see illustration)
Connectors	Sensor Connector: HIROSE LF10WBP-12S
	RS485: D-Sub 9 female
	CAN: D-Sub 9 female
	Ethernet
	Power
Cable Type	Main: 6PAIR
	Power: 2 strands; oval; grey (Power)
	Network: Network Cable (LAN, RS485, CAN)

Product image:



Cable, including connectors



Sensor connector HRS LF10WBP-12S (rear view)

Pin description of the sensor connector and pin layout model:

Pins	Color	Label	CAN	RS485	LAN	Banana Power
1	grey/red	Copro_Tx1_P				
2	red/blue	Copro_Tx1_N				
3	pink	Sensor RS485 RX L			8	
4	gray	Sensor RS485 RX H			7	
5	brown	Sensor RS485 TX L			1	
6	white	Sensor RS485 TX H			2	
7	blue	GND	3		(5)	black (blue)
8	red	V-Supply			(4)	red (brown)
9	black	Copro_Tx2_N				
10	violet	Copro_Tx2_P				
11	green	CAN_H	7	120 Ω	3	
12	yellow	CAN_L	2	120 Ω	6	

3.1.2 PLUG & PLAY CABLE FOR UMRR-96

The Plug & Play Cable for UMRR-96 is compatible with the automotive sensor UMRR-96 Type 153.

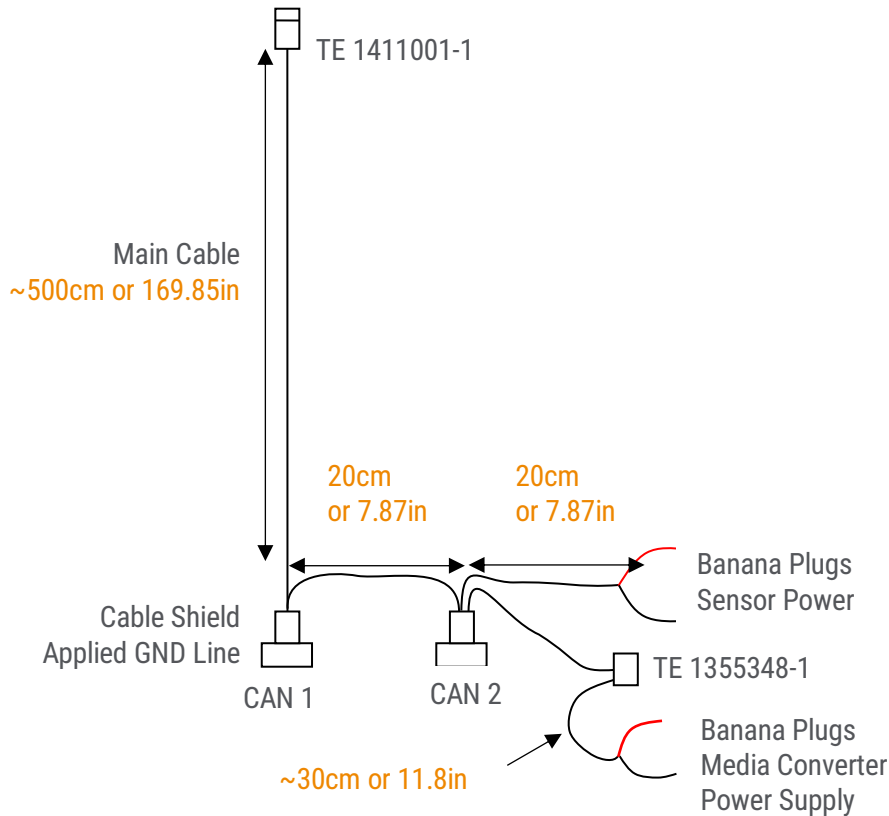


Illustration of the cable length and connectors

Product characteristics:

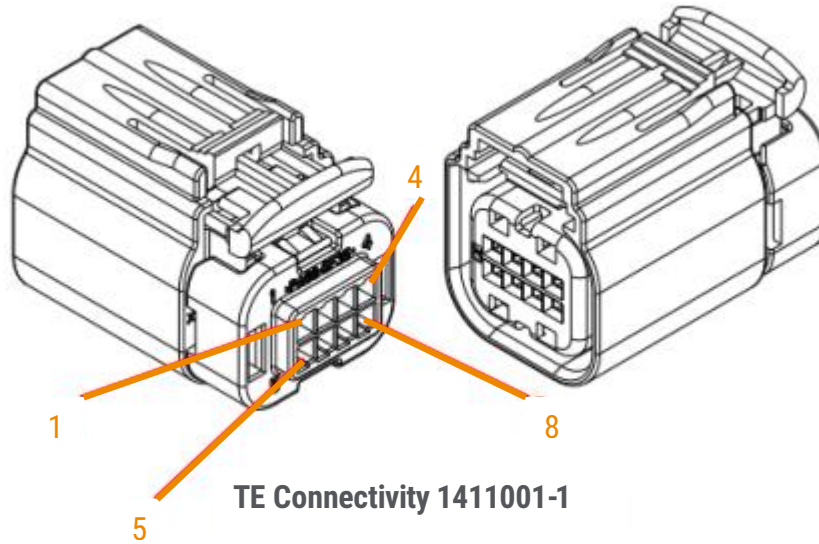
Parameter	Details
Length	570cm or 224.4in (for details see Illustration)
Connectors	2x CAN: D-Sub 9 female Body: D-Sub FKH1 from FCT TE Connectivity 1438031-1 (see connector assembly Nr.1 below) TE Connectivity 1355348-1 (see connector assembly Nr.2 below)
Main Cable	4-pair twisted pair, copper strands, common shield, diameter insulation: 1,4 - 2,06mm
CAN 1 to CAN 2	6-line non-twisted or twisted pair
CAN 2 to Banana Plugs Sensor Power & CAN 2 to TE 1355348-1	2-line
TE 1355348-1 to Banana Plugs Media Converter Power Supply	2x 1-line

Product images:



Cable, including connectors

Pin description of the sensor connector:



Sensor connector HRS LF10WBP-12S (rear view)

Shield and all grounds connected on/before Pin 3 CAN 1:

TE 1411001-1	Pair	Label	CAN 1	CAN 2	Banana Plug Sensor Power	TE 1355348-1	Banana Plug Autom. Ethernet Power
1	1	GND	3	3	Black	10	Black
2	2	BroadR_P				9	
3	3	CAN2_H		7			
4	3	CAN2_L		2			
5	1	V+ (Sensor)			Red		
6	2	BroadR_N				8	
7	4	CAN1_H	7				
8	4	CAN1_L	2				
SHIELD	-	SHIELD	3				
		V+ (Autom. Ethernet)				1	Red

4 LEGAL DISCLAIMER NOTICE

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