

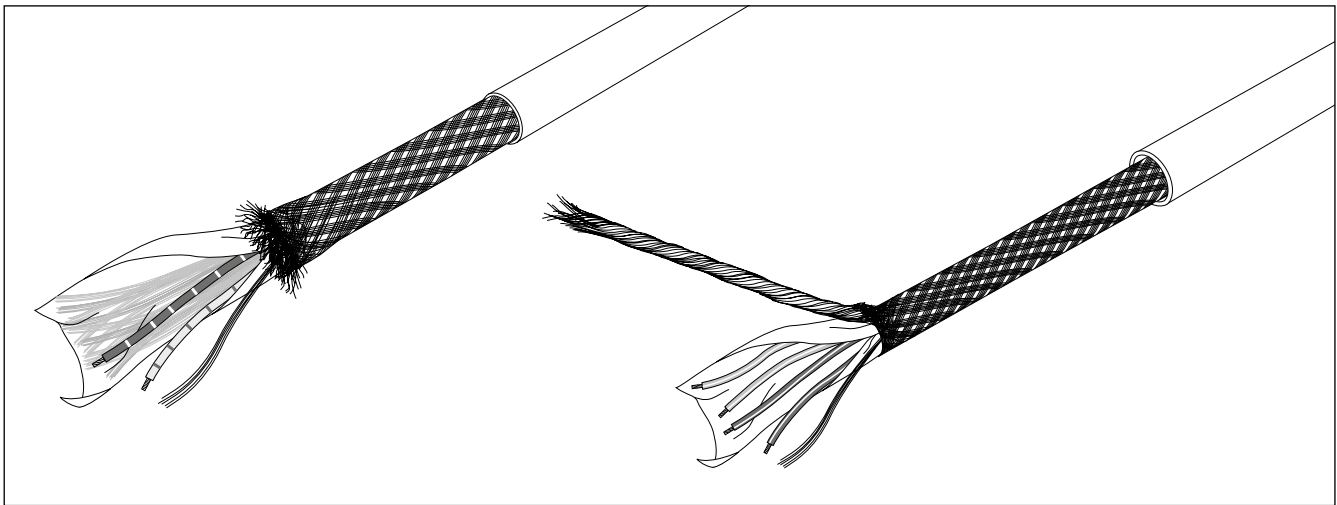
RS485 Communication cables

Product Overview

MONI-RS485-WIRE are braided and shielded type cables suitable for RS485 data transmission. Screen continuity and polarity must be maintained throughout the entire communication network.

Connections must be made at each panel in accordance with the details provided in the appropriate product manual. Do not share communication cables with other signals or power. Keep data cables away from fluorescent lights, power cables and

heavy duty machinery. Zero Halogen (Low Smoke) cables of the same construction are available on request. (Flame retardant to IEC 60332-3C)



Type	MONI-RS485-WIRE-B1 (Single pair construction)	MONI-RS485-WIRE-B2 (2-Pair construction)
General	Cables suitable for IEA RS-485 communications.	
Typical use	RS485 communications, In- and outdoors	
Approvals/Certification	UL 2919, VW-1	UL 2919, VW-1
Construction	MONI-RS485-WIRE-B1 (Single pair construction)	MONI-RS485-WIRE-B2 (Dual Pair construction)
Conductors	Two tinned Copper conductors 24AWG (7 x 0.20 mm)	Four tinned Copper conductors 24AWG (7 x 0.20 mm)
Insulation	Polyethylene (PE)	Polyethylene (PE)
Pairing	One single twisted Pair	Two twisted pairs
Identification	Blue / white + White / blue	Pair 1: Blue / white + White / blue Pair 2: White / Orange + Orange / White
Screening	Aluminium polyester tape Tinned Copper Braid (90% coverage)	Aluminium polyester tape Tinned Copper Braid (90% coverage)
Jacket	Type MONI-RS485-WIRE-B1- and MONI-RS485-WIRE-B2 made of PVC (Polyvinylchloride)	Type MONI-RS485-WIRE-B1ZH- and MONI-RS485-WIRE-B2ZH made of LSOH
Colour	All type Grey (Ral 7001)	

Electrical properties

Max operating voltage	300 V RMS	300 V RMS
Capacitance	45 Pf/m (measured between conductors)	45 Pf/m (measured between conductors)
Conductor resistance	80 Ohm/km @ 20°C	80 Ohm/km @ 20°C
Nominal Impedance	120 Ohm	120 Ohm
Velocity of Propagation	66%	66%
Max allowed Current	2.10 A @ 25°C	2.10 A @ 25°C

Physical Properties

Nominal Diameter (OD)	5.90 mm (±0.2 mm)	8.64 mm (±0.2 mm)
Temperature range	-30°C to +80°C	-30°C to +80°C
Minimum Bend radius	63 mm	89 mm
Max continuous length	1000 m	1000 m
Polyvinylchloride types	MONI-RS485-WIRE-B1	MONI-RS485-WIRE-B2
Part number (Weight)	1244-006598 (55 kg/km)	1244-006599 (90 kg/km)
Zero Halogen types	MONI-RS485-WIRE-B1ZH	MONI-RS485-WIRE-B2ZH
Part number (Weight)	1244-006600 (55 kg/km)	1244-006601 (90 kg/km)

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