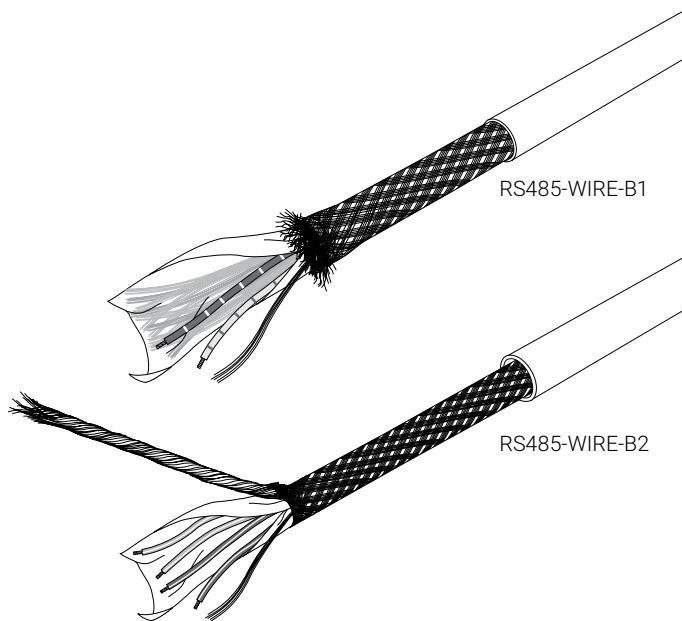


## RS485 COMMUNICATION CABLES



### PRODUCT OVERVIEW

nVent RAYCHEM 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	RS485-WIRE-B1 (Single pair construction)	RS485-WIRE-B2 (Dual Pair construction)
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### 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



(Russia, Kazakhstan, Belarus)  
For other countries contact your local nVent representative.

### 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	RS485-WIRE-B1- and RS485-WIRE-B2 made of PVC (Polyvinylchloride) RS485-WIRE-ZHB1- and RS485-WIRE-ZHB2 made of LSOH	
Colour	All type Grey	

## 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 Ø 20°C	80 Ohm/km Ø 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	RS485-WIRE-B1	RS485-WIRE-B2
Part number (Weight)	1244-006598 (55 kg/km)	1244-006599 (90 kg/km)
Zero Halogen types	RS485-WIRE-ZHB1	RS485-WIRE-ZHB2
Part number (Weight)	1244-006600 (55 kg/km)	1244-006601 (90 kg/km)

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