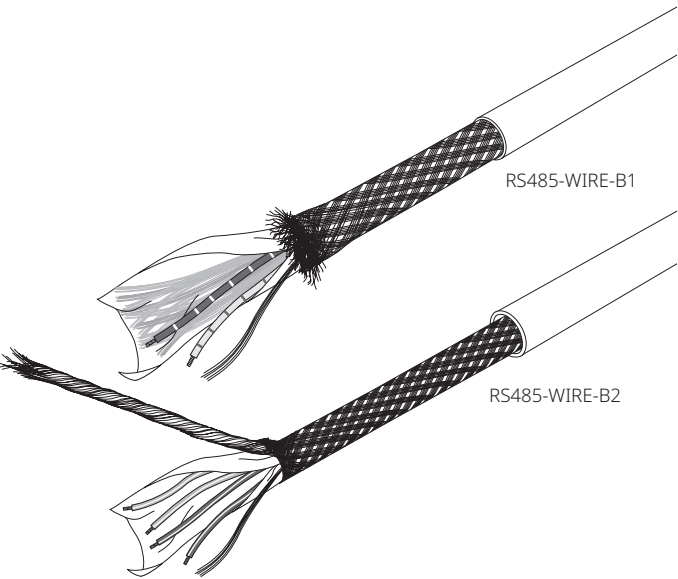


RS-485 communication cables

PRODUCT OVERVIEW



Raychem RS-485-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.

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

PRODUCT SPECIFICATIONS

Technical details

Type	RS-485-WIRE-B1 (Single pair construction)	RS-485-WIRE-B2 (Dual pair construction)
Conductors	Two tinned Copper conductors 24 AWG (7 x 0.20 mm)	Four tinned Copper conductors 24 AWG (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	RS-485-WIRE-B1- and RS-485-WIRE-B2 made of PVC (Polyvinylchloride) RS-485-WIRE-ZHB1- and RS-485-WIRE-ZHB2 made of LSOH	
Colour	All type Grey	

Electrical properties

Type	RS-485-WIRE-B1 (Single pair construction)	RS-485-WIRE-B2 (Dual Pair construction)
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

APPROVALS

RS-485 communications, In- and outdoors.

Product certification



ORDERING INFORMATION

Polyvinylchloride types	RS-485-WIRE-B1	RS-485-WIRE-B2
PN (Weight)	1244-006598 (55 kg/km)	1244-006599 (90 kg/km)
Zero Halogen types	RS-485-WIRE-ZHB1	RS-485-WIRE-ZHB2
PN (Weight)	1244-006600 (55 kg/km)	1244-006601 (90 kg/km)

North America

Tel +1 800 545 6258
info@chemelex.com

Latin America

Tel +1 713 868 4800
info@chemelex.com

Europe, Middle East, Africa, India

Tel +32 16 213 511
Fax +32 16 213 604
info@chemelex.com

Asia Pacific

Tel +86 21 2412 1688
infoAPAC@chemelex.com

chemelex
excellence is everything

Raychem Tracer Pyrotenax Nuheat