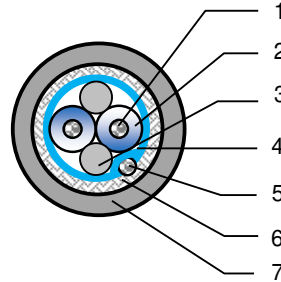


79841NH

Instrumentation and computer cable
1PAIR AWG24 (7xAWG32) tinned copper
PE insulation
Beldfoil + copper drain wire
Tinned copper braid
FRNC (UV stabilised) sheath.



Applications

- For EIA RS-485 data transmission applications.

General Standards

- EN 50290-2-27

Construction & Dimensions

1. Inner Conductor

Material	Tinned copper
Dimensions	7xAWG32
Cross section	AWG 24 / 0.22mm ²
Conductor standard	UL 444

2. Insulation

Material	Polyethylene
Diameter over insulation	1.73 ± 0.05 mm
Colour of insulation	White/blue and blue/white

3. Filler (2x)

Material	Polypropylene
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4. Foil (Beldfoil®)

Material	Aluminium / Polyester
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5. Drain wire

Material	Tinned copper
Dimensions	AWG24 (7xAWG32)

6. Braid

Material	Tinned copper
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7. Sheath

Material	FRNC (UV stabilised)
Colour	Gray (like RAL 7037)
Nominal thickness	0.9 mm
Nominal diameter	5.90 mm

Mechanical characteristics

Parameter	Specification	Unit
Flame resistance	IEC 60332-1-2	
Smoke emission	IEC 61034	
Resistance to fire according EN50575	Dca-s2,d2,a1	
Application specification	EN 50290-2-27	
Halogen content according to IEC 60754-1	zero	
Corrosivity of fire gasses according to IEC 60754-2		
- Conductivity	≤ 10	μS/mm
- pH value	≥ 4.3	
Temperature range installing	-15 to +80	°C
Temperature range operating (moving installation)	-15 to +80	°C
Temperature range operating (fixed installation)	-45 to +80	°C
Temperature range storage	-45 to +80	°C
Minimum bending radius	10 x cable diameter	mm
Maximum pulling tension	328	N

Electrical characteristics

Parameter	Specificati	Unit
Nominal resistance conductor	78.7	Ω/km
Nominal resistance shield	26.0	Ω/km
Nominal capacitance conductor to conductor	42.0	pF/m
Nominal capacitance conductor to shield + other cond.	75.5	pF/m
Nominal impedance @ 1 MHz	120	Ω
Nominal velocity of propagation	66	%
Nominal delay	5.2	ns/m
Nominal attenuation @ 1 MHz	1.97	dB/100m
Test voltage conductor-conductor	2500	VDC, 3 seconds
Test voltage conductor-screen	2500	VDC, 3 seconds
Voltage rating	300	V RMS
Maximum continues current per conductor @ 25 °C	2.1	A

Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2011/65/EU, 02 Jan. 2013); this is valid for all material produced after the RoHS compliant date for this product.

