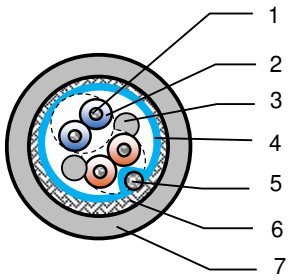
79842NH

Instrumentation and computer cable
2 PAIR AWG24 (7xAWG32) tinned copper
PE insulation
Z-foil drain wire + 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 / 0.22mm2
	Conductor standard	UL 444
2.	**Insulation**	
	Material	Polyethylene
	Diameter over insulation	1.73 ± 0.05 mm
	Colour of insulation	Pair #1: White/blue and blue/white Pair #2: White/orange and orange/white
3.	**Filler (2x)**	
	Material	Polypropylene
4.	**Foil**	
	Material	Aluminium / Polyester
5.	**Drain wire**	
	Material	Tinned copper
	Dimensions	AWG24 (7xAWG32)
6.	**Braid**	
	Material	Tinned copper
7.	**Sheath**	
	Material	FRNC (UV stabilised)
	Colour	Gray (like RAL 7037)
	Nominal thickness	0.90 mm
	Nominal diameter	8.60 mm

Mechanical characteristics

Parameter	Specification	Unit
Flame resistance	IEC 60332-1-2	
Smoke density	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	
Maximum pulling tension	380	N

Electrical characteristics

Parameter	Specificati	Unit
Nominal resistance conductor	78.7	Ω/km
Nominal resistance shield	19	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)
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.