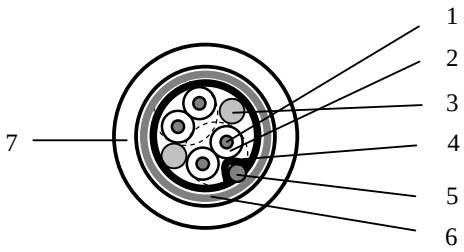
APPLICATION

Instrumentation and computer cable for EIA RS-485 data transmission applications.

CONSTRUCTION



1.	**Conductor**	AWG24 (7xAWG32) tinned Cu
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
	Diameter	2.87 mm
	Colour	White
4.	**Foil (Z-fold®)**	
	Material	Aluminium / Polyester
	Thickness	9 / 23 µm
5.	**Drainwire**	AWG20 (7xAWG28) tinned Cu
6.	**Braiding**	
	Material	0.122 mm tinned Cu
	Coverage	90%
7.	**Sheath**	
	Material	FRNC (UV stabilised)
	Colour	Chrome (like RAL 7037)
	Thickness of sheath	0.89 ± 0.05 mm
	Diameter over sheath	8.65 ± 0.10 mm

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor	78.7 Ω/km
Nominal resistance shield	7.2 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

Testvoltage conductor-conductor	2500 VDC, 3 seconds
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS (CM application) 30 V RMS (AWM application)
Maximum continues current per conductor @ 25 °C	2.1 A

Mechanical and physical:

Flame resistance	IEC 60332-3C
Oil resistance	ASTMD741
Radiation resistance	IEC544 (CERN)
Application specification	BS 7655 section 6.1 table 1, LTS 3
Halogen content according to IEC754-1	zero
Corrosivity of fire gasses according to IEC754-2	
Conductivity	≤ 100 µS/cm
pH value	≥ 3.5
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	395 N

MARKING

Colour code 2114: chrome sheath with text ‘BELDEN V 9842NH 2PR 24AWG SHIELDED LSNH IEC 332-3C’

PACKAGING

On non-returnable reels with a nominal length of 305m (-0, +10%) or on non-returnable reels with a nominal length of 500m (-0, +10%) or on non-returnable reels with a nominal length of 1000m (-0, +10%).

Each reel is labelled with the following data:
Belden Logo. Belden code number. Item description. Length on the reel. Date of manufacture. CE-marking.

Belden CDT believes this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.