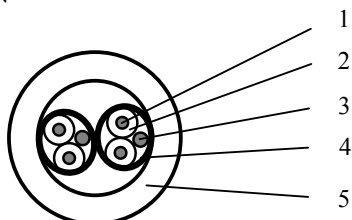
	TECHNICAL DATA SHEET	code	9729NH
		version	5
		date	2005-12-20
	9729NH	page	1/2

APPLICATION

Instrumentation and computer cable for data transmission applications.

CONSTRUCTION




1. Conductor	AWG24 (7xAWG32) tinned Cu
2. Insulation	Datalene
Material	1.55 ± 0.06 mm
Diameter over insulation	Pair 1: Black and red
Colour of insulation	Pair 2: Black and white
3. Drainwire	AWG24 (7xAWG32) tinned Cu
4. Foil (Z-fold®)	Aluminium / Polyester
Material	9 / 12 µm
Thickness	Pair 1: Red
Colour of foil	Pair 2: Green
5. Sheath	FRNC (UV stabilised)
Material	Chrome (like RAL 7037)
Colour	0.914 mm
Minimum wall thickness	1.14 mm
Minimum average wall thickness	7.9 mm
Nominal diameter over sheath	

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor	78.7 Ω/km
Nominal resistance shield	59.1 Ω/km
Nominal capacitance conductor to conductor of a pair	41.0 pF/m
Nominal capacitance conductor to shield + other cond.	76.1 pF/m
Nominal inductance of pair	0.49 µH/m
Nominal impedance	100 Ω
Nominal attenuation @ 2 MHz	4.63 dB/100m
Nominal attenuation @ 3 MHz	5.35 dB/100m
Nominal attenuation @ 4 MHz	5.91 dB/100m
Nominal attenuation @ 5 MHz	6.50 dB/100m
Nominal attenuation @ 6 MHz	6.89 dB/100m
Nominal attenuation @ 11 MHz	9.15 dB/100m
Nominal attenuation @ 12 MHz	9.51 dB/100m

	TECHNICAL DATA SHEET	code	9729NH
		version	5
		date	2005-12-20
	9729NH	page	2/2

Nominal attenuation @ 24 MHz	13.16 dB/100m
Testvoltage conductor-conductor	2500 VDC, 3 seconds
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS
Maximum continues current per conductor @ 25 °C	1.0 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	

MARKING


Colour code 2080: chrome sheath with text ‘BELDEN V 9729NH 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.

	TECHNICAL DATA SHEET	code	9729NH
		version	5
		date	2005-12-20
	9729NH	page	3/2



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.