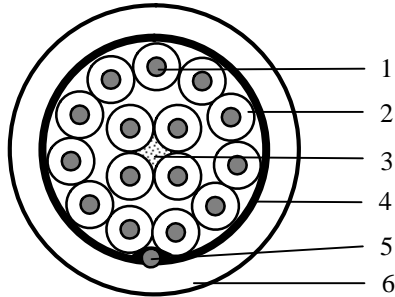
	TECHNICAL DATA SHEET	code	9541NH
		version	1
	15xAWG24	date	2012-03-26
	9541NH	page	1/2


APPLICATION

Instrumentation and computer cable for data transmission applications.

CONSTRUCTION



1. Conductor	AWG24 (7xAWG32) tinned Cu
2. Insulation	
Material	PE
Diameter over insulation	1.12 ± 0.05 mm
Colour of insulation	Black (central), white (central), red (central), green (central), orange, blue, black/white, black/red, black/green, black/orange, black/blue, black/white white/red, white/green, white/blue.
3. Filler	
Material	Cotton
Colour	White
4. Foil (Beldfoil®)	
Material	Aluminium / Polyester
Thickness	9 / 23 µm
5. Drainwire	AWG24 (7xAWG32) tinned Cu
6. Sheath	
Material	FRNC
Colour	Chrome 060
Minimum wall thickness	0.65 mm
Minimum average wall thickness	0.80 mm
Nominal diameter over	7.40 mm

	TECHNICAL DATA SHEET	code	9541NH
		version	1
	15xAWG24	date	2012-03-26
	9541NH	page	2/2

REQUIREMENTS AND TEST METHODS

Electrical:


Nominal resistance conductor	82.0 Ω /km
Nominal resistance shield	59.1 Ω /km
Nominal capacitance conductor to adjacent conductors	98 pF/m
Nominal capacitance conductor to shield + other cond.	180 pF/m
Test voltage conductor-conductor	2500 VDC, 3 seconds
Test voltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS
Maximum continuous current per conductor @ 25 °C	1.75 A

*Nominal values are for information only.

Mechanical and physical:

Flame resistance	IEC 60332-3-24
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	$\leq 100 \mu\text{S/cm}$
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	360 N



	TECHNICAL DATA SHEET	code	9541NH
		version	1
	15xAWG24	date	2012-03-26
	9541NH	page	3/2

Belden declares 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.