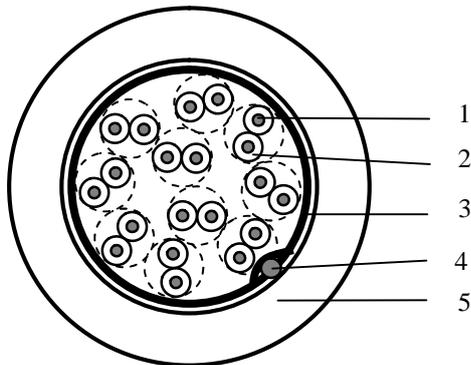


	<b>TECHNICAL DATA SHEET</b>	code	<b>9510NH</b>
		version	<b>3</b>
		date	<b>2010-02-22</b>
	<b>9510NH</b>	page	<b>1/2</b>

## APPLICATION

Instrumentation and computer cable for EIA RS-232 data transmission applications.

## CONSTRUCTION



<b>1. Conductor</b>	AWG24 (7xAWG32) tinned Cu
<b>2. Insulation</b>	
Material	PE
Diameter over insulation	1.12 ± 0.05 mm
Colour of insulation	Pair 1 (central): Black and red Pair 2 (central): Black and white Pair 3: Black and green Pair 4: Black and blue Pair 5: Black and yellow Pair 6: Black and brown Pair 7: Black and orange Pair 8: Red and white Pair 9: Red and green Pair 10: Red and blue
<b>3. Foil (Beldfoil®)</b>	
Material	Aluminium / Polyester
Thickness	9 / 23 µm
<b>4. Drainwire</b>	AWG24 (7xAWG32) tinned Cu
<b>5. Sheath</b>	
Material	FRNC(UV stabilised)
Colour	Chrome 060
Nominal wall thickness	0.86 mm
Nominal diameter	9.42 mm

	<b>TECHNICAL DATA SHEET</b>	code	<b>9510NH</b>
		version	<b>3</b>
		date	<b>2010-02-22</b>
	<b>9510NH</b>	page	<b>2/2</b>

## REQUIREMENTS AND TEST METHODS

### Electrical:

Nominal resistance conductor	78.7 $\Omega$ /km
Nominal resistance shield	54.1 $\Omega$ /km
Nominal capacitance conductor to conductor of a pair	98.4 pF/m
Nominal capacitance conductor to shield + other cond.	164.0 pF/m
Testvoltage conductor-conductor	2500 VDC, 3 seconds
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS
Maximum continuous current per conductor @ 25 °C	1.1 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	$\leq 100 \mu\text{S/cm}$
pH value	$\geq 3.5$
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	400 N



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.