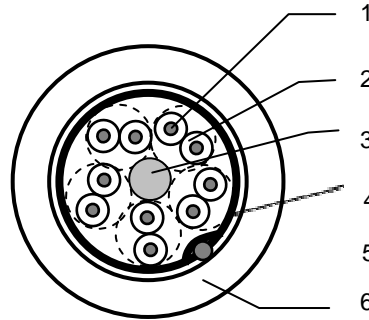


## 9505NH

**Instrumentation and computer cable  
AWG24 (7xAWG32) 5 twisted pairs  
Overall Beldfoil® + Drain wire  
FRNC (UV stabilised) sheath.**



### Applications

- For EIA RS-232 data transmission applications.

### General Standards

- EN 50290-2-27

### Construction & Dimensions

<b>1. Inner Conductor</b>	
Material	Tinned Copper
Diameter	AWG24 (7xAWG32)
<b>2. Insulation</b>	
Material	PE
Diameter over insulation	1.12 ± 0.05 mm
Colour of insulation	Pair 1: Black and red Pair 2: Black and white Pair 3: Black and green Pair 4: Black and blue Pair 5: Black and yellow
<b>3. Filler</b>	
Material	Polypropylene
Diameter	1.90 mm
Colour	White
<b>4. Foil (Beldfoil®)</b>	
Material	Aluminium / Polyester
Thickness	9 / 23 µm
<b>5. Drain wire</b>	
Material	Tinned Copper
Diameter	AWG24 (7xAWG32)
<b>6. Sheath</b>	
Material	FRNC (UV stabilised)
Colour	Chrome (RAL 7037)
Nominal thickness	0.90 mm
Nominal diameter	7.50 mm

## Mechanical characteristics

Parameter	Specification	Unit
Flame resistance	IEC 60332-3-24	
Smoke density	IEC 61034	
Oil resistance	IEC 60811-404	
Radiation resistance	IEC 60544	
Application specification	EN 50290-2-27	
Halogen content according to IEC 60754-1	zero	
Corrosivity of fire gasses to IEC 60754-2		
Conductivity	≤ 100	μS/cm
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	250	N

## Electrical characteristics

Parameter	Specification	Unit
Nominal resistance conductor	78.7	Ω/km
Nominal resistance shield	55.8	Ω/km
Nominal capacitance conductor to conductor of a pair	98.4	pF/m
Nominal capacitance conductor to shield + other conductor	164.0	pF/m
Test voltage conductor-conductor	2500	VDC, 3 seconds
Test voltage conductor-screen	2500	VDC, 3 seconds
Voltage rating	300	V RMS
Maximum continues current per conductor @ 25 °C	1.5	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.