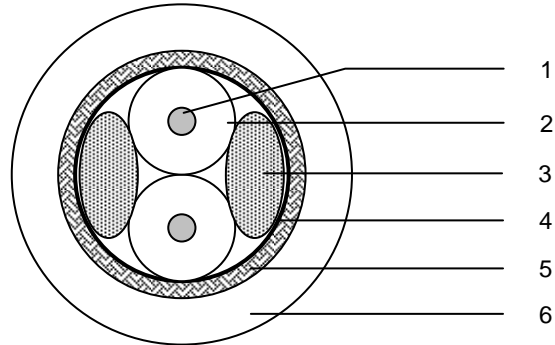


## 3079ANH

**Instrumentation and computer cable**  
**AWG22 solid bare copper**  
**Foam skin PE insulation**  
**Z foil +copper braiding**  
**FRNC sheath**



### Applications

- For data Transmission applications such as Profibus General Standards

- EN 50290-2-27

### Construction & Dimensions

<b>1. Inner Conductor</b>	
Material	solid bare copper
Diameter	AWG22
<b>2. Insulation</b>	
Material	Foam skin Polyethylene
Diameter over insulation	2.51 ± 0.09 mm
Nominal thickness of skin	0.05 mm
Colour of insulation	Red and green
<b>3. Filler (2x)</b>	
Material	FR-polypropylene
Diameter	2.54 mm
Colour	Blue
<b>4. Foil (Z-fold®)</b>	
Material	Aluminium / Polyester
Thickness	25 / 50 µm
<b>5. Braiding</b>	
Material	AWG36 tinned copper
Coverage	65%
<b>6. Sheath</b>	
Material	FRNC
Colour	Gray (like RAL 7037) or Purple
Nominal sheath thickness	1.10 mm
Nominal diameter over sheath	8.00 mm

### Mechanical characteristics

Parameter	Specification	Unit
Flame resistance	IEC 60332-3-24	
Smoke density	IEC 61034	
Oil resistance	IEC 60811-404	
Application specification	EN 50290-2-27	
Halogen content according to IEC 60754-1	zero	
Corrosivity of fire gasses according 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
Maximum pulling tension	220	N
Minimum bending radius	10 x cable diameter	

### Electrical characteristics

Parameter	Specification	Unit
Nominal resistance conductor	52	Ω/km
Nominal capacitance conductor to conductor @ 1kHz	27.9	pF/m
Capacitance unbalance @ 1kHz	< 1000	pF/km
Impedance (3 – 20 MHz)	150 ± 15	Ω
Nominal velocity of propagation	78	%
Maximum attenuation @		
	0.2 MHz	0.9
	4 MHz	2.2
	16 MHz	4.5
Test voltage conductor-conductor	2500	VDC, 3 seconds
Test voltage conductor-screen	2500	VDC, 3 seconds
Voltage rating	300	V RMS

\*Nominal values are for information only.



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.

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