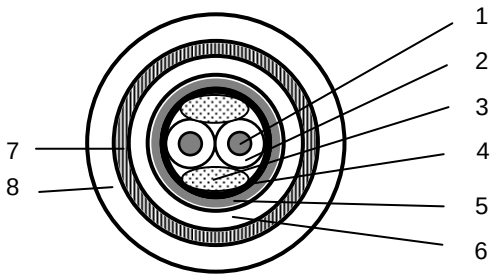
3079ALS

Instrumentation and computer cable
AWG22 solid bare copper
Foam skin PE insulation
Z-foil + braid
FRNC sheath + Steel armour + FRNC sheath



Applications

- For data Transmission applications such as Profibus (DP)

Construction & Dimensions

1.	**Inner Conductor**	
	Material	solid bare copper
	Diameter	AWG22
2.	**Insulation**	
	Material	Foam skin PE
	Diameter over insulation	2.51 ± 0.09 mm
	Nominal thickness of skin	0.05 mm
	Colour of insulation	Red and green
3.	**Filler (2x)**	
	Material	FR-Polypropylene
	Diameter	2.54 mm
4.	**Foil (Z-fold®)**	
	Material	Aluminium / Polyester
	Thickness	25 / 50 µm
5.	**Braiding**	
	Material	AWG36 tinned copper
	Coverage	65%
6.	**Sheath**	
	Material	FRNC
	Colour	Chrome (RAL 7037)
	Nominal sheath thickness	1.10 mm
	Nominal diameter over sheath	8.00 mm
7.	**Armouring**	
	Material	Single steel wire 0.90 mm
	Optical coverage	>95 %
8.	**Sheath**	
	Material	FRNC (UV stabilised)
	Colour	Black or Purple
	Nominal sheath thickness	1.30 mm
	Nominal diameter over sheath	12.40 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
Minimum bending radius	15 x cable diameter	mm

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	dB/100m
4 MHz	2.2	dB/100m
16 MHz	4.5	dB/100m
Test voltage conductor-conductor	2500	VDC, 3 seconds
Test voltage conductor-screen	2500	VDC, 3 seconds
Voltage rating	300	V RMS

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.