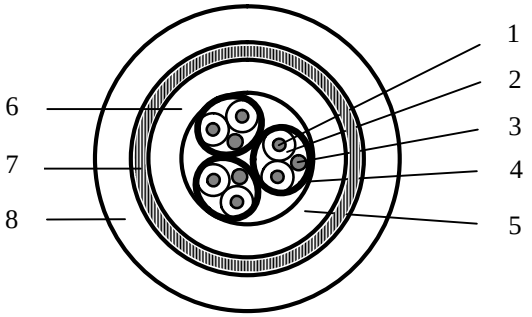
APPLICATION

Instrumentation and computer cable for data transmission applications.

CONSTRUCTION



1.	**Conductor**	AWG22 (7xAWG30) tinned Cu
2.	**Insulation**	
	Material	Polypropylene
	Diameter over insulation	1.27 ± 0.05 mm
	Colour of insulation	Pair 1: Black and red Pair 2: Black and white Pair 3: Black and green
3.	**Drainwire**	AWG22 (7xAWG30) tinned Cu
4.	**Foil (Z-fold®)**	
	Material	Aluminium / Polyester
	Thickness	9 / 12 µm
	Colour of foil	Pair 1: Red Pair 2: Green Pair 3: Blue
5.	**Sheath**	
	Material	FRNC
	Colour	Chrome (like RAL 7037)
	Nominal thickness	0.89 mm
	Nominal diameter	7.00 mm
7.	**Armouring**	
	Material	Single Steel wire 0.90 mm
	Optical coverage	>95 %
8.	**Sheath**	
	Material	FRNC (UV stabilised)
	Colour	Black
	Nominal thickness	1.35 mm
	Nominal diameter	11.50 mm

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REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor	49.2 Ω/km
Nominal resistance shield	34.8 Ω/km
Nominal capacitance conductor to conductor of a pair	98.4 pF/m
Nominal capacitance conductor to shield + other cond.	180.4 pF/m
Nominal inductance of pair	0.59 µH/m
Nominal impedance	50 Ω
Testvoltage conductor-conductor	2500 VDC, 3 seconds
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS
Maximum continues current per conductor @ 25 °C	2.0 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	≤ 100 µS/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

PACKAGING

On non-returnable reels with a nominal length of 500m (-0, +20%) or on non-returnable reels with a nominal length of 1000m (-0, +20%).

Each reel is labelled with the following data:
Belden Logo. Belden code number. Item description. Length on the reel. Date of manufacture. CE-marking.

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.

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