APPLICATION

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

CONSTRUCTION
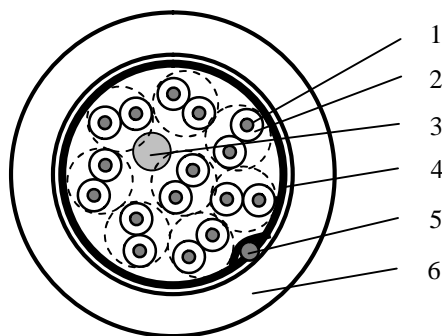
1.	**Conductor**	AWG24 (7xAWG32) tinned Cu
2.	**Insulation**	
	Material	PE
	Diameter over insulation	1.12 ± 0.05 mm
	Colour of insulation	Pair 1 (central): Black and red
		Pair 2: Black and white
		Pair 3: Black and green
		Pair 4: Black and blue
		Pair 5: Black and yellow
		Pair 6: Black and brown
		Pair 7: Black and orange
		Pair 8: Red and white
3.	**Filler**	
	Material	Polypropylene
	Diameter	1.90 mm
	Colour	White
4.	**Foil (Beldfoil®)**	
	Material	Aluminium / Polyester
	Thickness	9 / 23 µm
5.	**Drainwire**	AWG24 (7xAWG32) tinned Cu
6.	**Sheath**	
	Material	FRNC (UV stabilised)
	Colour	Chrome (like RAL 7037)
	Nominal thickness	0.90 mm
	Nominal diameter	8.40 mm

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor	78.7 Ω/km
Nominal resistance shield	54.1 Ω/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 continues 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	≤ 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
Maximum pulling tension	400 N

PACKAGING

On non-returnable reels with a length of 500 m (-0, +10%) or unreel package with a length of 1000 m (-0, +10%).

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