



DATA SHEET	0034246
Connection cable for colour monitors	valid from : 08.11.2010

RGB DY 5 x Kx 0,4/1,8

Application

Connection cable for high-resolution colour monitors of electronic information systems, PC and CAD user systems and for process visualization in industrial plants with analogue or digital signal transmission.

The RGB DY cable contains five coaxial cables for the separate transmission of the red, green and blue colour signal, the separate transmission of synchronization impulses and further functions. The overall screening make this cable particularly suitable for the use in electromagnetically loaded areas.

The cable is resistant against atmospheric UV radiation, it is intended for static laying in dry and damp interiors and outdoor but not for direct burial.

Applicable connectors: D-Sub, D-Sub High-Density,
Coaxial-connector style BNC (RG 179 B/U)

Design

Coaxial cable	Inner conductor	solid copper wire, nom. 0.4 mm diameter
	Dielectric	cellular-polyethylene, 1.8 mm diameter
	Outer conductor	tinned copper braiding with nom. 80% coverage
	Sheath	PVC, 2.75 mm, diameter
	Identification	sheath colours: red, green, blue, black and white
Cable design	Twisting	5 coaxial cables twisted together, wrapping by plastic foil
	Overall screening	layer of tinned copper wires with a tinned drain Wire.
	Outer sheath	PVC, black, UV-resistant, outer diameter 9.5 mm

Electrical characteristics at 20°C

Impedance	Ω	75	
Capacitance	nF/km	60	
Insulation resistance	min. $G\Omega \times km$	5	
Nom. velocity of propagation	%	81	
Attenuation at	1 MHz	max. dB/100m	2
	5 MHz	max. dB/100m	4.8
	10 MHz	max. dB/100m	6.9
	50 MHz	max. dB/100m	14.6
	100 MHz	max. dB/100m	20.5
	200 MHz	max. dB/100m	29

Mechanical and thermal characteristics

elaborated by: TE-K: A. Khan	Document: DB0034246_EN	page 1 of 2
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Minimum bending radius	static	mm	135
Temperature range	static	°C	- 20 to + 80
	moved	°C	- 5 to + 50
Fire load		kWh/m	0.31
Flame propagation	flame retardant to IEC 60332-1-2		
RoHS directive	This cable confirms to RoHS directive (2002/95/EG)		

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