



RGB CY 3 x Kx 0,4/1,8 + 3 x 0,25

DB0034245

valid from: 20.03.2012

Application

Connection cable for high-resolution colour monitors of electronic information systems, PC and CAD user systems and for process visualization in industrial plants.

The RGB CY cable contains three coaxial cables for the separate transmission of the red, green and blue colour signal. For the separate transmission of synchronization impulses or additional control functions the three cores may be used. The overall screening of the copper braiding make this cable particularly suitable for the use in electromagnetically loaded areas.

The cable is intended for static laying in dry and damp interiors and outdoors 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	bare copper wire, massive, \varnothing ca. 0.4 mm
	Dielectric	Cellular PE, \varnothing ca. 1.8 mm
	Outer conductor	braid of copper wire, tinned
	Sheath	PVC, wall-thickness ca. 0.3 mm, \varnothing ca. 2.75 mm, colors: red, green, blue
Control cores	Conductor	bare copper wire, fine-wire stranded, ca. 0.25 mm ²
	Insulation	PVC, wall-thickness ca. 0.3 mm, \varnothing ca. 1.3 mm colors: white, brown, green (acc. to VDE 47100)
Twisting		Three coaxial cables with three control cable as fillers twisted together
Wrapping		plastic foil
Overall screening		braid of tinned copper wire, tinned drain wire ca. 0.22 mm ²
Outer sheath		PVC, black, wall-thickness ca. 0.8 mm, outer \varnothing : max. 8.0 mm

TECHNICAL DATA

Coaxial cable	Characteristic impedance	ca. 75 Ω
	Capacitance	ca. 60 nF/km
	Insulation resistance	min. 5 G Ω xkm
	Nom. velocity of propagation	ca. 81 %
	Attenuation	1 MHz: max. 2 dB/100 m 5 MHz: max. 4.8 dB/100 m 10 MHz: max. 6.9 dB/100 m 50 MHz: max. 14.6 dB/100 m 100 MHz: max. 20.5 dB/100 m 200 MHz: max. 29 dB/100 m
Control cores	Conductor resistance	max. 79 Ω /km
	Insulation resistance	min. 20 M Ω xkm
Mechanical and thermal characteristics	Minimum bending radius	static: 120 mm
	Temperature range	static: -5° C up to +50° C moved: -20° C up to +80° C
	Flame propagation	flame retardant acc. to IEC 60332-1-2
	Fire load	0.23 kWh/m
	General requirements	Dangerous and forbidden substances acc. to RoHS directive (2002/95/EG) are not allowed to the manufacturing.