0034246 DATA SHEET

valid from: 01.01.2019

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



Application

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

Conductor Inner conductor

solid copper wire, Ø nom. 0.4 mm

Insulation Dielectric

cellular-polyethylene, Ø nom. 1.8 mm

Stranding 5 coaxial cables twisted together

wrapping by plastic foil

Screen Outer conductor coaxial cable:

tinned copper braiding, coverage ca. 80%

Overall screening:

layer of tinned copper wires with a tinned drain wire

Outer sheath Coaxial cable:

PVC, Ø 2.75 mm

sheath colours: red, green, blue, black and white

Overall sheath:

PVC, black, UV-resistant outer Ø: max. 9.5 mm

Electrical properties at 20°C

 $\begin{array}{ll} \mbox{Insulation resistance} & \mbox{min 5 G}\Omega \ \mbox{x km} \\ \mbox{Mutual capacitance} & \mbox{60 nF/km} \\ \mbox{Characteristic impedance} & \mbox{75 }\Omega \\ \end{array}$

Attenuation max. 2 dB/100 m (1 MHz)

max. 4.8 dB/100 m (5 MHz) max. 6.9 dB/100 m (10 MHz) max. 14.6 dB/100 m (50 MHz) max. 20.5 dB/100 m (100 MHz) max. 29 dB/100 m (200 MHz)

Velocity of propagation 81 %

Mechanical and thermal properties

Minimum bending radius static: 135 mm

Temperature range moved: -10 °C up to 70 °C

static: -20°C up to 80°C

Burning load 0.31 kWh/m

Flammability flame retardant acc. to IEC 60332-1-2

General requirements This cable is conform to the EU-Directive 2011/65/EU

(RoHS, Restriction of the use of certain hazardous substances).