0034246	DATA SHEET	LAPP
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

Insulation resistance	min 5 GΩ x km
Mutual capacitance	60 nF/km
Characteristic impedance	75 Ω
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).