



DATA SHEET	0034247
Connection cable for colour monitors	valid from : 30.10.2007

RGB-FD 3 x Kx 0,6L/2,4

Application

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

RGB FD 3 x Kx 0,6L2,4 cable contains three coaxial cables for the separate transmission of the red, green and blue colour signal. They have low attenuation and allow large transmission lengths. The cable is intended for high flexible application in power chains, on permanently moving machines and linear robots, with high demands to up time, for installation in dry and damp interiors and in rough industrial environment. The PUR sheath is very resistant against mineral oils and abrasion.

Applicable connectors: D-Sub connector,
Coaxial-connector style BNC, for inst.:
- AF 2172 0.4/2.5 Amphenol (Telegärtner No. J01002A13509)
- 0.6/2.4 (Suhner No. BNC-75-2-12)

Design

Inner conductor	bare copper conductor, fine wired, (19 x 0.1mm), nom. 0.6 mm diameter
Dielectric	celluar-polyethylene, 2.4 mm diameter
Outer conductor	bare copper braiding
Sheath	PVC, 3.7 mm, diameter
Identification	sheath colours: red, green, blue
Twisting	3 coaxial cables twisted together, wrapping by 1 layer non wooven tape
Outer sheath	PUR, flame retardant, grey, outer diameter: 10.5 mm

Marking on the sheath:

LAPP KABEL STUTTGART **UNITRONIC®** RGB FD 3Kx 0,6L/2,4 ROHS ART. 0034247

Electrical characteristics at 20 °C

Impedance		Ω	75
Capacitance		nF/km	60
Insulation resistance		min. G Ω xkm	5
Nom. velocity of propagation		%	81
Attenuation at	1 MHz	nom. dB/100m	1,7
	5 MHz	nom. dB/100m	3,8
	10 MHz	nom. dB/100m	5,4
	50 MHz	nom. dB/100m	11,9
	100 MHz	nom. dB/100m	17,0
	200 MHz	nom. dB/100m	25,0

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Mechanical and thermal characteristics

Minimum bending radius	moved	mm	160
Temperature range	static	°C	- 30 to + 80
	moved	°C	- 10 to + 60
Permissible pulling strength during installation		N	100
Fire load		kWh/m	0.43
Flame propagation		flame retardant to IEC 60332-1-2	

RoHS directive

This cable confirms to RoHS directive (2002/95/EG)

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