

LEONI Special Cables GmbH

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

Design

Inner conductor: silver plated copper wire	∅ 0.4 mm (0,016 in)
Insulation of Perfluorethylenpropylen, FEP	∅ 0.82 mm (0,032 in)
Wall thickness about 0.2 mm	
Insulation of Polyethylene (PE)	∅ 2.42 mm (0,095 in)
1. Shield braiding of bare copper wires 0.1 mm dia Coverage about 90%	∅ 2.82 mm (0,111 in)
Copper foil overlapped, applied longitudinally	
2. Shield braiding of bare copper wires 0.1 mm dia Coverage about 90%	∅ 3.3 mm (0,130 in)

Jacket:  
Thermoplastic copolymer (FRNC) GY  
Wall thickness about 0.4 mm

∅ (4.1 ±0.15) mm (0,161 ±0,006 in)

Printing: To be define

## Electrical data at 20°C

Conductor resistance	≤	145	Ohm/km
Insulation resistance	≥	10	GOhm*km
Capacitance (1 kHz wire/screen)	≈	66	nF/km
Characteristic impedance (20 MHz)		(75 ±2)	Ohm
Attenuation (10 MHz)	≤	5.2	dB/100m
Attenuation (20 - 200 MHz)	≤	20	dB/100m
Near-/Far-end crosstalk attenuation (1 - 100 MHz)	≥	80	dB
Test voltage (wire/screen rms 50Hz 1min)	=	1500	V

## Mechanical and thermal characteristics

Conductor/Screen material acc. to DIN EN 13602 Cu-ETP-A...  
 Insulating material acc. to DIN VDE0207, compound type 6Y11  
 Insulating material acc. to DIN EN 50290-2-23 (MDE0819), table L/MD (HD 624.3)  
 Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)  
 Flame test acc. to IEC 60332-1-2

## Application / Special feature:

Permissible temperature range: -25 °C (-13 °F) up to 70 °C (158 °F)  
 Min. bending radius allowed : repeated 7,5X ∅, single 5X ∅  
 Weight about : 31 Kg/km (21 lb/1000ft)

## Designation:

6Y2YCTKCH 0.4/2.42-75 VSGR  
 500 m (1640 ft) on non-returnable reel

