

LEONI Special Cables GmbH

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

Design

Inner conductor: Stranded bare copper wire 19 X 0.287
 Insulation of foamed Polyethylen (PE) with skin
 Alulaminat foil overlapped, applied longitudinally
 Identification thread
 Shield braiding of tinned copper wires 0.1 mm dia
 Coverage about 80%

\varnothing (1.44 ± 0.04) mm (0.057 ± 0.002 in)
 \varnothing (3.7 ± 0.10) mm (0.146 ± 0.004 in)

\varnothing 4.2 mm (0.165 in)

Jacket:

Polyvinylchloride (PVC) BK
 Wall thickness about 0.6 mm

\varnothing (5.5 ± 0.2) mm (0,217 ± 0,008 in)

Printing: ROSENBERGER RTK 043 * "internal order number" "month/year"
 Textintervals about 1000 mm

Electrical data at 20°C

Conductor resistance
 Insulation resistance
 Capacitance (1 kHz wire/screen)
 Characteristic impedance
 Return loss 50 - 2000 MHz (max. length 3m)
 Screening efficiency
 Relative velocity of propagation
 Test voltage (wire/screen rms 50Hz 1min)

\leq 15 Ohm/km
 \geq 5 GOhm*km
 \approx 82 nF/km
 (50 ± 2) Ohm
 \geq 22 dB
 \geq 80 dB
 80 %
 1000 V

Frequency (MHz)	100	500	1000	2000
Attenuation typ. (dB/100m) (dB/100ft)	9,3 (2,8)	22,1 (6,7)	32,8 (10,0)	49 (14,9)

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...
 Screen material acc. to DIN EN 13602 Cu-ETP-A...-B
 Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)

UL-Style 1354 (60°C)

Other characteristics:

Permissible temperature range : -25 °C (-13 °F) up to 70 °C (158 °F)
 Min. bending radius allowed : repeated 10X \varnothing , single 5X \varnothing
 PVC weight with Phthalate : 14.3 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 42 Kg/km (28 lb/1000ft)

Designation of order:

V45466-B14-C5
 170170
 02YS(ST)CY 1.4/3.7-50 LI SW
 3000 m (9842 ft) on non-returnable reel

