

Design

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

ø (1.44 ±0.04) mm (0.057 ±0.002 in dia)
 ø (3.7 ±0.10) mm (0.146 ±0.004 in dia)
 ø 4.2 mm (0.165 in dia)

Jacket:

Polyvinylchloride (PVC) BK
 Wall thickness about 0.6 mm

ø (5.5 ±0.2) mm (0.217 ±0.008 in dia)

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)

≤ 15 Ohm/km
 ≥ 5 GOhm*km
 ≈ 82 nF/km
 (50 ±2) Ohm
 ≥ 22 dB
 ≥ 80 dB
 80 %
 1000 V

Frequency (MHz)	100	500	1000	2000	3000	6000
Attenuation typ. (dB/100m)	9,1	20,5	30	45	59	92
Mean. Power (W) at 40°C	405	177	123	84	67	45

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 ø, single 5X ø
 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

