

LEONI Special Cables GmbH

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

Design**Wire:**

Tinned copper wire
Insulation of foamed Polyethylen (PE) with skin

∅ 0.4 mm (0.016 in)
∅ 1.0 mm (0.039 in)

Core:

2 wires, WH and BN twisted to a pair
Plastic laminate overlapped
Tinned copper drain wire ∅ 0.4 mm
Identification thread
Alulaminat foil overlapped

∅ 2.3 mm (0.091 in)

Jacket:

Polyvinylchloride (PVC) GY
Wall thickness about 0.25 mm

∅ (2.8 ±0.1) mm (0.11 ±0.004 in)

Electrical data at 20°C

Conductor resistance
Insulation resistance
Characteristic impedance (400 kHz)
Operating voltage (peak)
Capacitance (1 kHz)
Test voltage (wire/wire/screen rms 50Hz 1min)

≤ 153 Ohm/km
≥ 10 GOhm*km
120 Ohm
≤ 250 V
≈ 46 nF/km
= 500 V

Frequency (kHz)	120	300	600	1000	3000	5000	10000
Attenuation typ. (dB/100m)	1.1	1.8	2.7	3.8	6.1	7.3	9.5

Mechanical and thermal characteristic

Conductor material acc. to DIN 40500 part 5. E-Cu58 F21-V5
Insulating material acc. to DIN VDE 0819. part 103. table 2/A (02Y11)
Jacket material acc. to DIN VDE 0819 part 102. compound type TM52 (YM2)
Stripping force of insulation ≤ 4.5 N, Samples 50mm, test acc. to SN 54233
Solder shrink acc. to DIN VDE 0472. part 808/C
Degree of contraction ≤ 2.5 mm

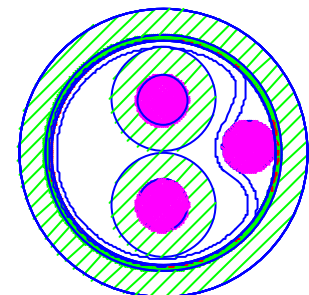
Application / Special feature:

Permissible temperature range : -5°C (-41°F) up to +70°C (+158°F)
min. bending diameter allowed : multiple 20X ∅. single 10X ∅
PVC weight with Phthalate : 2.7 Kg/km
PVC weight without Phthalate : 0.0 Kg/km
Weight about : 8 Kg/km (5 lb/1000ft)

Designation of order:

V45467-F14-C25 250 m (820 ft) on ring
V45467-F14-C25-L6 500 m (1640 ft) on spool

02YS(ST)Y 1X2X0.4/1.0-120 VZN GR



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Date of issue : 10.04.2002

Technical modification reserved

Creator : LSC E / BRUNS

Number : V45467-F14-C25-EN

Up-dating : 11.04.2003 Name: Langemeyer
Supersedes : 00.0.0000 which is to be intended with drawn

Page 1 / 1