**Design**

**Wire**
Stranded bare copper wire 19 X 0.26 (18 AWG)  
Insulation of foamed Polyethylene (PE) with skin  
ø 1.24 mm (0.049 in)  
ø 2.55 mm (0.100 in)

**Core:**
2 wires, RD and GN twisted to a pair  
Plastic tape, overlapped  
Innen-Jacket: Polyvinylchloride (PVC) (filling compound)  
ø 5.4 mm (0.213 in)  
Shield braiding of tinned copper wires 0.15 mm dia  
Coverage about 85%  
ø 6.0 mm (0.236 in)

**Jacket:**
Polyvinylchloride (PVC) BU  
Wall thickness about 1.0 mm  
ø (8.0 ±0.3) mm (0.315 ±0.012 in)

Printing: "sequential length in metres"  
LEONI L PROFIBUS FMS ES L45467-J21-C35 *  
AWM 2905 80 °C  
Textintervals about 1000 mm

**Electrical data at 20°C**

- **Loop resistance**  
  ≤ 40 Ohm/km
- **Insulation resistance**  
  ≥ 10 GOhm/km
- **Capacitance**  
  1 kHz  
  = 52 nF/km  
  (100 ±20) Ohm
- **Characteristic impedance**  
  31.25 kHz  
  ≤ 0.3 dB/100m  
  nom. 0.4 dB/100m  
  1 MHz  
  nom. 1.3 dB/100m
Relative velocity of propagation  
= 75 %

Surface transfer impedance of screen (10 MHz)  
≤ 250 mOhm/m

Operating voltage (peak)  
≤ 250 V

Test voltage (wire/wire/screen rms 50Hz 1min)  
1500 V

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...
Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)
Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)
Flame retardant acc. to IEC 60332-1

UL-Style 2905

Other characteristics:
Permissible temperature range: -40 °C (-40 °F) up to 80 °C (176 °F)
Min. bending radius allowed: repeated 10X Ø, single 5X Ø

PVC weight with Phthalate: 53.7 Kg/km
PVC weight without Phthalate: 0.0 Kg/km
Weight about: 100 Kg/km (67 lb/1000ft)

Designation of order:
L45467-J21-C35
206229
02YSYC 1X2X1.3/2.55-100 LI BL FR KF40
1000 m (3281 ft) on non-returnable reel