

**Design**

**Wire:**

Bare copper wire  
Insulation of Polyvinylchloride (PVC)  
Wall thickness about 0.4 mm

∅ 0.8 mm

**Core:**

4 wires twisted to form a quad  
Sequence of colors: WH-BK-YE-RD (pair 1: RD/BK, pair 2: WH/YE)  
Plastic tape, overlapped  
Tinned copper drain wire ∅ 0.4 mm  
Alulaminat foil overlapped

**Jacket:**

Polyvinylchloride (PVC) GN, RAL 6018  
Wall thickness about 1.0 mm

∅ (6,1 ±0,3) mm

Printing: EIB-BUS CABLE J-Y(ST)Yh 2x2x0,8

**Electrical data**

Loop resistance	≤	73.2	Ohm/km
Insulation resistance	≥	100	MOhm*km
Surface resistance (jacket)	≥	1	GOhm*km
Capacitance (800 Hz)	≤	100	nF/km
20% from the nominal value are permissible			
Capacity unbalanced k	≤	300	pF/100m
20% the value			
Nominal voltage $U_0/U$ (effective value)		250/250	V
Test voltage (wire/wire rms 50Hz 5min)		1000	V
Test voltage (in water tank rms 50Hz 1min)		4000	V

Frequency (MHz)	0.001	0.01	0.1
Attenuation (dB/100m) ≤	1.4	3.1	8.2
Near crosstalk (dB) ≥	80	70	60
Impedance (Ohm)	330 ±50	120 ±20	100 ±15

**Mechanical and thermal characteristics**

Insulating material acc. to DIN VDE 0819 part 101, compoundtype TI51 (Y1)  
Jacket material acc. to DIN VDE 0819, part 102, compoundtype TM51 (YM1)  
Flame retardant acc. to IEC 60332-1-2  
Weight about: 64 Kg/km

**Designation of order:**

L45480-F25-B155  
202259  
J-Y(ST)Yh 2x2x0,8 GN  
1000 m on reel

