

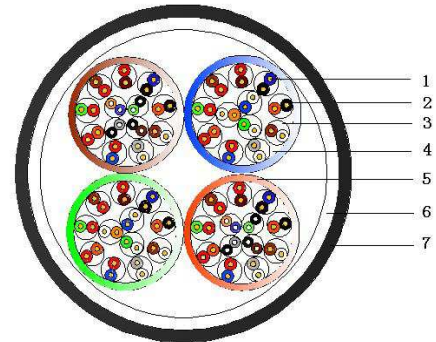
# DA-2Y2Y 50x2xAWG 25/1



## 1. Category: 3

## 2. Construction: see figures

- 1) Conductor: solid bare copper wire, AWG 25/1
- 2) Insulation: solid PE  
Color code: white/blue, white/orange, white/green, white/brown, white/grey,  
Red/blue, red/orange, red/green, red/brown, red/grey  
Black/blue, black/orange, black/green, black/brown, black/grey  
Yellow/blue, yellow/orange, yellow/green, yellow/brown, yellow/grey  
Purple/blue, purple/orange, purple/green, purple/brown, purple/grey
- 3) Pair: 50 twisted pairs
- 4) Individual unit: each unit of 12 (2x) or 13 (2x) pairs
- 5) Individual unit in different color bindings; color codes are white-blue, white-orange, white-green, white-brown, white-grey, red-blue, red-orange etc
- 6) Tape: polyester
- 7) Outer sheath: PE (black; RAL 6008)



## 3. Electronic characteristics at 20°C:

DC resistance (max.)	120 Ohm/km
Insulation resistance (min.)	5 Gohm x km
Mutual capacitance (app.)	58 nF/km
Transfer capacitance [e] (app.)	1500 pF/km
Signal velocity [c] (app.)	0.67
Propagation Delay (app.)	528 ns/100m
Skew at 100 MHz (app.)	40 ns/100m
Characteristic impedance at 100 MHz	100±5 Ohm
Test voltage U <sub>eff</sub>	1.000 V
Operating voltage U <sub>eff</sub> (max)	125 V

Frequency MHz	Attenuation dB/100m	NEXT dB	PS-NEXT dB /100	EL-FEXT dB /100m	PS-ELFEXT dB /100m	RL dB /100m
	max	min	min	min	min	min
1	2.6	41.3	41.3	39	39	12
4	5.6	32.3	32.27	27	27	12
8	8.5	27.8	27.75	21	21	12
10	9.7	26.3	26.3	19	19	12
16	13.1	23.2	23.24	15	15	10

TIA/EIA-568-C.2-2009    ISO/IEC 11801: 2002 (E)    YD/T1019-2001

## 4. Performance (type and bandwidth):

Acc. to TIA/EIA-568-C.2-2009, ISO/IEC 11801: 2002(E), YD/T1019-2001

Bandwidth: 16 MHz

**5. Application:**

Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2. edition).

Ideal for all applications of Class C (Video, Data, Voice) upto100 Base-T, acc. to IEEE802.3 an, VoIP, PoE

**6. Mechanical characteristics:**

Bending radius:

During the installation: 8\*cable diameter

After the installation: 4\*cable diameter

Tensile strength (max.): 1250N

Crush: 1000 N/100mm

Impact (number of shocks): 10

**7. Chemical property:**

Thermal characteristics:

Temperature range for fixed installation: -20°C to +60°C

Temperature range for mobile installation: 0°C to +50°C

**8. Dimensions:**

Type	Size	Outer diameter (mm)	Weight (kg/km)	Cu Index (kg/km)	Sheath color
DA-2Y2Y 50x2xAWG 25/1	50P	14.5	231 (approx)	157,6 (approx)	Black RAL6008

**9. Package:**

500m/drum,  
1000m/drum

**10. Article number:**

DA-114502-000