

# DA-2Y(St+C)H 4\*2\*AWG24/1

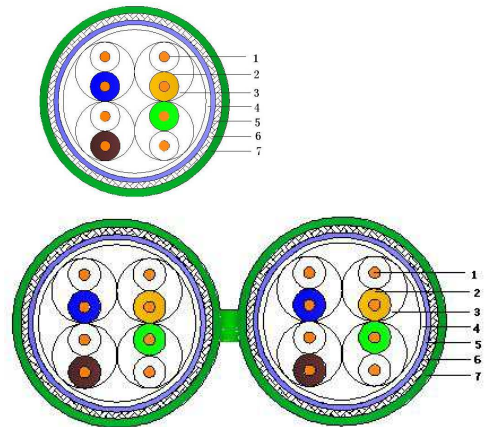
## DA-2Y(St+C)H 2\*(4\*2\*AWG24/1)



### 1. Category: 5e

### 2. Construction: see figures

- 1) Conductor: solid bare copper wire, AWG24/1
- 2) Insulation: solid PE  
Color code: white (blue)/blue, white (orange)/orange, white (green)/green, white (brown)/brown,
- 3) Pair: 4 twisted pairs
- 4) Tape: Polyester
- 5) Screen-1: composited aluminum & plastic foil with the aluminum outwards
- 6) Screen-2: braided tinned copper wires with density  $\geq 40\%$
- 7) Outer sheath: LSOH (green: RAL 6017)



### 3. Electrical characteristics at 20°C:

DC resistance (max.)	93.5 Ohm/km
Insulation resistance (min.)	5 Gohm x km
Mutual capacitance (app.)	54 nF/km
Transfer capacitance [e] (app.)	1500 pF/km
Signal velocity [c] (app.)	0.63
Propagation Delay (app.)	520 ns/100m
Skew at 100 MHz (app.)	30 ns/100m
Characteristic impedance at 100 MHz	100±5 Ohm
Test voltage Ueff	1.000 V
Operating voltage Ueff (max)	125 V

Frequency MHz	Attenuation dB/100m	NEXT dB	PS-NEXT dB/100	ACR dB/100m	PS-ACR dB/100m	EL-FEXT dB/100m	PS-ELFEXT dB/100m	RL dB/100m
	max	min	min	min	min	min	min	min
1	2.1	65.3	62.3	62.8	59.8	63.8	60.8	20
4	4.1	56.3	53.3	50.8	47.8	51.8	48.8	23
10	6.5	50.3	47.3	42.8	39.8	43.8	40.8	25
16	8.2	47.2	44.2	38.7	35.7	39.7	36.7	25
20	9.3	45.8	42.8	36.8	33.8	37.8	34.8	25
31.25	11.7	42.9	39.9	32.9	29.9	33.9	30.9	23.6
62.5	17	38.4	35.4	26.9	23.9	27.9	24.9	21.5
100	22	35.3	32.3	22.8	19.8	23.8	20.8	20.1

EN 50288-2-1(2004)

TIA/EIA-568-C.2(2009)

IEC61156-5

YD/T1019-2001

### 4. Fire behavior:

Fire retardant:	IEC 60332-1-2
Halogenic acid gas emission:	IEC 60754-1-2
Smoke density:	IEC 61034-1-2

## 5. Performance

Acc. to EN 50288-2-1(2004) / TIA/EIA-568-C.2 (2009) /IEC61156-5/ YD/T1019-2001

Bandwidth: 100MHz

## 6. Application:

Generic cabling system acc.

EN 50288-2-1(2004); TIA/EIA-568-C.2(2009); IEC61156-5; YD/T1019-2001; ISO/IEC 11801 and EN 50173 (2nd edition);

acc. to IEEE 802.3ab, ideal for all applications of CLASS D up to 1GbE, VOIP and POE.

## 7. Mechanical characteristic:

Bending radius:

During installation: 8\*cable diameter

After installation: 4\*cable diameter

Tensile strength (Max.): 100N

Crush: 1000 N/100mm

Impact (numbers of shocks): 10

## 8. Electromagnetic behavior:

Transfer impedance at 10MHz (max): 100 mOhm/m

Screen attenuation up to 100MHz (min): 40 db

Coupling attenuation up to 1000MHz (min): 35 db

## 9. Chemical property:

Thermal characteristics:

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

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

## 10. Dimensions:

Type	Size	Out diameter (mm)	Weight (kg/km)	Cu Index (kg/km)	Sheath color
DA-2Y(St+C)H 4x2xAWG 24/1	4P	6.4	49(approx)	27,1 (approx)	green RAL6017
DA-2Y(St+C)H 2x(4x2xAWG 24/1)	2x4P	6.4x13	97(approx)	54,7 (approx)	

## 11. Package:

305m/box

500m/drum

1000m/drum

## 12. Article number:

Simplex DA-421040-000

Duplex DA-421080-000