

Reference : **SYT1 NUM**

Ed 4 06/03 SM

APPLICATIONS : Telephone link cable Cat. 3.

DESCRIPTION : AWG20 or AWG24 copper core, PE insulation, pairs assembly, general Al/PES foil shielding, Grey or Ivory PVC outer sheath

CONSTRUCTION	ELECTRICAL DATA		
	PARAMETER	UNIT	VALUE
1) CONDUCTOR Rigid bare copper wire AWG20 (0,81 mm) or AWG24 (0,51 mm) 2) INSULATION PE Colour code according to NF C 93-529 $\varnothing_{\text{NOM.}} = 0,88 \text{ mm (AWG 24)} ; 1,25 \text{ mm (AWG20)}$ 3) GENERAL PES FOIL 4) GENERAL SHIELDING Tinned copper drain wire ($\varnothing : 0,45 \text{ mm}$) Aluminium/Polyester foil (coverage : 100%) 5) RIP CORD 6) OUTER SHEATH PVC Ivory or Grey (reference I or G) MARKING (black) SYT PLUS 1 NUM n x 2 x AWG20 + batch N° + metric marking SYT PLUS 1 NUM n x 2 x AWG24 + batch N° + metric marking n : number of pairs FLAME BEHAVIOUR Cat. C2 according to NF C 32-070 equivalent to IEC 60332-1	Tension max. (DC)	V	300
	Impedance	Ω	100 ± 20
	Intensity max. admissible	A	
		AWG 20	0,65
		AWG 24	0,25
	Capacity at 800 Hz	nF/km	
		cond/cond	< 80
	Max. Electrical resistance at 20°C	Ω/km	
		AWG 20	37,5
		AWG 24	96
	Dielectric strength DC (1 min)	Vcc	
		cond/cond	1500
		cond/shield	750
Min. insulation resistance	M Ω .km	> 1500	
Capacity unbalance	pF/500m		
	pair/pair	300	
Operating temperature	- 10°C → + 70°C		
Max. temperature on core	+ 70°C		

Number of pairs	AWG 20			AWG 24		
	Reference	Outer \varnothing nom. (mm)	Weight (kg/km)	Reference	Outer \varnothing nom. (mm)	Weight (kg/km)
1	SYT 1.20 I or G	4,3	28	SYT 1.24 I or G	3,6	19
2	SYT 2.20 I or G	6,0	50	SYT 2.24 I or G	4,6	27
3	SYT 3.20 I or G	6,8	64	SYT 3.24 I or G	5,1	34
5	SYT 5.20 I or G	7,9	106	SYT 5.24 I or G	6,3	52
7	SYT 7.20 I or G	8,9	137	SYT 7.24 I or G	6,7	63
10	SYT 10.20 I or G	10,3	180	SYT 10.24 I or G	7,7	97
15	SYT 15.20 I or G	11,5	251	SYT 15.24 I or G	8,5	121
21	SYT 21.20 I or G	13,6	333	SYT 21.24 I or G	10,3	168
30	SYT 30.20 I or G	16,1	451	SYT 30.24 I or G	11,8	229
42	SYT 42.20 I or G	18,3	619	SYT 42.24 I or G	13,4	298
56	SYT 56.20 I or G	20,7	775	SYT 56.24 I or G	15,0	366
112	SYT 112.20 I or G	28,0	1510	SYT 112.24 I or G	20,6	681

Any use of the present items out of normal conditions is not guaranteed.

The characteristics related to this document are not contractual, and can be modified without warning.

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	AWG 20	AWG 24
Typical linear attenuation in dB/km at		
40 kHz	3,5	6,5
150 kHz	8,5	9
300 kHz	13	16
1 MHz	25	30
2 MHz	35	42
Near and Crosstalk (NEXT) in dB		
Typical at 1 MHz	56	
minimum at 1 MHz	45	
minimum at 2 MHz	41	
minimum at 16 MHz *	23	

* values in compliance with category 3 according to standards ISO/IEC 11801 and EN 50173.

PAIRS COLOUR CODE ACCODING TO NF C 93-529

CABLE 1 PAIR : white / red

CABLE > 1 PAIR : Colour assignment within the pair is obtained from the centre of the assembly according to the following sequences, repeated as many times as required.

- ◆ Conductor 1 of the pair : light blue, grey, orange, violet (with colour change every 7 pairs)
- ◆ Conductor 2 of the pair : white, dark blue, yellow, brown, black, red, green (with colour change every pair)
- ◆ Bundles are identified by helicoïdal coloured PES tapes : white, blue, yellow, brown, black, red, green, violet.