

PRESENTATION

These cables are used for internal installations. They are particularly used for telephony distribution and ADSL. These cables could be supplied without armor (SYT1+) or with armor (SYT2+) where mechanical damages could be expected.

REFERENCE STANDARDS

UTE C 93-529-2

CABLE STRUCTURE**1- Conductors**

Conductors consist of solid copper having a diameter of 0.5(AWG24) and 0.8 (AWG 20).

2- Insulation of conductors

Foam-skin polyethylene.

3- Stranding

- . Units:
 - two insulated conductors are assembled in pairs
- . Units stranding:
 - pairs are assembled in concentric cables having a capacity lower than 21 pairs
 - Cables having a capacity of 21 pairs or more are assembled in bundles of 7 or 14 pairs

4- Core wrapping

A dielectric polyester tape is applied over the cable core

5- Screen

Over the wrapped cable is applied a plastic coated aluminum foil.

6- Drain wire

It consists of tinned copper wire with a 0.45 mm diameter.

7- Inner sheath

The Inner Sheath (SYT2 +) / Outer sheath(SYT+) consist of unleaded PVC. It may be thermoplastic without halogens (LSOH).

8- Armor (for SYT2)

Over the inner sheath are applied two steel tapes with a thickness of 0,2 mm.

9- Outer sheath (for SYT2)

The sheath consist of unleaded PVC. or halogen free compound



DIMENSIONS

Designation	diameter of inner sheath SYT1 + (mm)		diameter of outer sheath SYT2 + (mm)	
	AWG 20	AWG 24	AWG 20	AWG 24
1 paire	4,3	3,6	--	--
2 paires	6,0	4,6	8,6	--
3 paires	6,8	5,1	9,5	--
5 paires	7,9	6,3	10,5	8,9
7 paires	8,9	6,7	11,9	10,1
10 paires	10,3	7,7	13	11
15 paires	11,5	8,5	15,8	12,8
21 paires	13,6	10,3	17,8	14,2
30 paires	16,1	11,8	20,2	15,8
42 paires	18,3	13,4	22,8	18,2
56 paires	20,7	15,00	26,6	21,3
112 paires	28,0	20,6	30	25

ELECTRICAL CHARACTERISTICS

Maximum electric resistance of the conductor:

0.5 mm (AWG 24): 96 Ω /km

0.8 mm (AWG 20): 37 Ω /km

Test voltage in direct current (1mm): 1.5 kV

Minimum Insulation resistance (200VDC): > 1500 M Ω /km

Nominal mutual capacity: 60 nF/km

TRANSMISSION CHARACTERISTICS

Frequency (kHz)	Typical linear attenuation. (db / 100m)	Minimum near end crosstalk (NEXT)attenuation. (db)
1	2	70
40	3,5	70
150	6,5	67
300	13	63
1000	25	55
2000	35	50

ENVIRONMENT CHARACTERISTICS

- Flame resistance Category C2 according to NFC 32070 2.1 or IEC 60332-1
- Temperature of function - 10° C ÷ +70° C
- RoHS conformity European Parlement N: 2002/95/EC

PACKAGING

- Packaging in coils or drums of 500m and 1000m.