

	SPECIFICA TECNICA TECHNICAL SPECIFICATION	
	<i>Mod. TEC-tds-0 N°0021.19 Rev.0</i>	

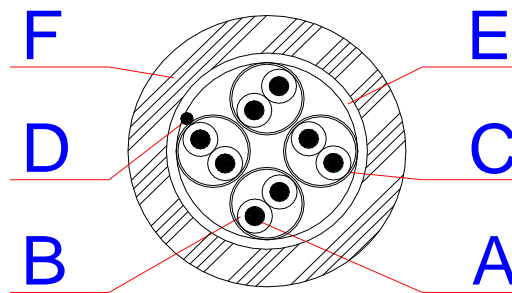
**Technical specification for indoor telephone wiring, data processing and electronics.
Cables containing solid tinned copper conductors having nominal diameter 0,6 mm, with HFFR insulation, individually screened twisted pairs and PVC jacket.
CPR UE305/11 - EN 50575:2014+A1:2016 - Class Cca-s3-d1-a3**

Telecom cable flame retardant
TPVF nx2x0.6 Cca

1. Application

The cables are designed for use in telecom or signaling systems, data processing or electronics. They are suitable for fixed installation in indoor environment. The cables don't propagate fire.

2. Cable section and makeup



Cable designation : **TPVF 4x2x0.6 Cca**

- A) Conductor: solid tinned copper wire, nominal diameter 0,6 mm
- B) Insulation: HFFR compound
- C) Twisted pairs individually screened with aluminium/polyestere tape (aluminium outside)
Pairs stranded in concentric layers
- D) Drain wire: solid tinned copper 0,6 mm
- E) Core covering: polyester tape
- F) Overall jacket: PVC compound, colour WHITE RAL9010

3. Cable marking

The outer jacket is marked in contrasting colour with the customer name, cable designation according to Clause 4, CPR Classification, week/year of production, CE mark + metric marking

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4. Construction, diameter, weight and delivery length

Cable designation	Core construction (pairs)	Nominal thickness of jacket (mm)	Nominal cable diameter (mm)	Approx. weight (kg/km)	Delivery length (m)
TPVF 1x2x0.6 Cca	1	0,8	4,1 ± 0,2	32	1000
TPVF 2x2x0.6 Cca	2	0,8	6,4 ± 0,2	40	1000
TPVF 3x2x0.6 Cca	3	0,8	6,7 ± 0,2	52	1000
TPVF 4x2x0.6 Cca	4	0,8	7,3 ± 0,2	60	1000
TPVF 6x2x0.6 Cca	6	0,8	8,3 ± 0,2	78	1000
TPVF 8x2x0.6 Cca	8	0,8	9,6 ± 0,2	100	1000
TPVF 10x2x0.6 Cca	2+8	1,0	11 ± 0,5	130	1000
TPVF 12x2x0.6 Cca	3+9	1,0	12 ± 0,5	148	1000
TPVF 15x2x0.6 Cca	4+11	1,0	13 ± 0,5	180	1000
TPVF 20x2x0.6 Cca	1+6+13	1,0	14 ± 0,5	222	1000
TPVF 30x2x0.6 Cca	4+10+16	1,2	17 ± 0,5	330	1000
TPVF 50x2x0.6 Cca	4+10+16+20	1,3	22 ± 0,5	530	1000

5. Electrical characteristics at 20° C

Characteristic	U.M.	0,6 mm conductor diameter
Conductor resistance	Ohm/km	≤ 36,6
Insulation resistance (1 min.)	MOhm * km	≥ 100
Mutual capacitance	nF/km	nominal 100
Unbalance capacitance at 800 Hz:	pF/km	≤ 300
Test voltage	wire-wire	V c.c.
	wire-shield	V c.c.

6. Mechanical characteristics and behaviour in the case of fire

Minimum admissible bending radius: 20 x D (where D is the cable diameter according to Clause 4)
Temperature range: -5°C to 70°C

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No fire propagation: NBN C30-004-F1 - IEC 60332-1
No flame propagation: NBN C30-004-F2 - IEC 60332-3-24 (Cat.C)

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7. Color code

Pair number	Wire a	Wire b
1	White	Blu
2	White	Orange
3	White	Green
4	White	Brown
5	White	Violet
6	White	Grey
7	Red	Blu
8	Red	Orange
9	Red	Green
10	Red	Brown
11	Red	Violet
12	Red	Grey
13	Black	Blu
14	Black	Orange
15	Black	Green
16	Black	Brown
17	Black	Violet
18	Black	Grey
19	Yellow	Blu
20	Yellow	Orange
21	Yellow	Green
22	Yellow	Brown
23	Yellow	Violet
24	Yellow	Grey
25	Brown	Blu
26	Brown	Orange
27	Brown	Green
28	Brown	Brown
29	Green	Blu
30	Green	Orange
In outer layer of 50 pairs cable only		
31	White	Grey
32	White	Red
33 to 50	White	Black