

Description : MULTICORE CABLES SCREENED – THIN WALL – PROTECTED CLASS P

Conductor						u/m
Material	Stranded Tinned Copper					
Strand diameter	19x0,18	19x0,222	19x0,26	37x0,223		mm
Nominal cross section	0,50	0,75	1,0	1,5		mm²
Insulation						u/m
Material	Tecnopolymer compounds (double layer) compliant to EN 50306					
Color	White numbered					
Minimum thickness	0,18	0,18	0,18	0,22		mm
Nominal Diameter	1,15 ÷ 1,45	1,35 ÷ 1,65	1,45 ÷ 1,80	1,95 ÷ 2,30		mm

**Assembly**  
N° Conductors are assembled in layers with eventual filler and tape

Shield			u/m
Material	tinned copper braid		
Coverage	≥ 80		%

Sheath			u/m
Material	Compound type EM 104 (compliant to EN50264)		
Color	Black		
Minimum thickness	See table I		mm
Nominal Diameter	See table I		mm
Marking	TECNIKABEL - ITALY - (Week /Year) EN 50306-4 3P 300 V x MM S 90		

Date	Rev.	Page 1 of 3
01/04/2014	2	Update marking and P/N
01/08/2011	1	Update marking and P/N
01/06/2011	0	Emission
Technical Office : Leonardo BRUNI		Customer's signature and stamp for acceptance :
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Table I			
P/N Number	Description	Minimum Thickness [mm]	Nominal Diameter [mm]
530V0045	EN 50306-4 8x0,5mm²	0,42	6,6
530V0019	EN 50306-4 2x0,5mm²	0,42	4,3
530V0046	EN 50306-4 3x0,5mm²	0,42	4,6
530V0047	EN 50306-4 5x0,5mm²	0,42	5,4
535V0024	EN 50306-4 2x0,75mm²	0,42	4,7
535V0025	EN 50306-4 3x0,75mm²	0,42	5,0
540V0025	EN 50306-4 2x1,0mm²	0,42	5,0
540V0004	EN 50306-4 3x1,0mm²	0,42	5,3
540V0024	EN 50306-4 8x1,0mm²	0,56	8,3
545V0014	EN 50306-4 8x1,5mm²	0,56	9,5

Other Characteristics	
- Electrical Resistance at 20°C	: IEC 60228 Class 5
- Insulation Resistance at 20°C and 90°C	: EN 50305 6.4.1 and 6.4.2
- Operating Voltage U <sub>0</sub> /U	: 300/500 V
- Test Voltage for 5 minutes	: 2000 V AC
- Minimum Bending Radius	: 4 x Ø (unscreened) : 5 x Ø (screened)
- Temperature Range	: -40°C ÷ + 105°C (Single Core) : -40°C ÷ + 90°C (Multicore/pair)
- Test on cables and materials	The electrical, physical and mechanical tests are compliant with the prescription of rule EN 50264-1.

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Reaction to Fire and Required for Halogens	
- Flame propagation of single cable	: EN 50265-1 - EN 60332-1-2
- Flame Propagation of bunched cable	
OD ≥ 12mm	: EN 50266-2-4 – IEC 60332-3-24
OD > 6mm and < 12 mm	: EN 50266-2-5 – EN 50305 9.1.1 IEC 60332-3-25
OD ≤ 6 mm	: EN 50305 9.1.2
- Low Smoke Density ( EN 50268-2 – IEC 61034-2 )	: Transmittance ≥ 70 %
- Halogen acid gas emission ( EN 50267-2-1 – IEC 60754-1 )	: HCl ≤ 0,5 %
- Degree of acid of gases evolved during of the combustion ( EN 50267-2-2 – IEC 60754-2 )	: pH ≥ 4,3
- Fluorine content ( EN 60684-2 )	: Conductivity ≤ 10 µS/mm ≤ 0,1
- No Toxic Gases ( EN 50305 par.9.2 )	: ≤ 6 (insulation) ≤ 3 (sheath)

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23	ESQUEMAS ELEC. Y LOGICOS		1	B.20.75.000.00		0.000	
	SCHEMI ELETTR. E LOGICI						
22	CABLE MULTIPOLAR DELGADO 6x0.75MM²		1			0.080	
	CAVO MULTIPOLARE SOTILE 6x0.75MM²						
21	CABLE MULTIPOLAR DELGADO 6x0.5MM²		1			0.074	
	CAVO MULTIPOLARE SOTILE 6x0.5MM²						
20	CABLE MULTIPOLAR DELGADO 4x2.5MM²		1			0.155	
	CAVO MULTIPOLARE SOTILE 4x2.5MM²						
19	CABLE MULTIPOLAR DELGADO 3x2.5MM²		1			0.125	
	CAVO MULTIPOLARE SOTILE 3x2.5MM²						
18	CABLE MULTIPOLAR DELGADO 2x2.5MM²		1			0.080	
	CAVO MULTIPOLARE SOTILE 2x2.5MM²						
17	CABLE MULTIPOLAR DELGADO 1x2.5MM²		1			0.045	
	CAVO MULTIPOLARE SOTILE 1x2.5MM²						
16	CABLE MULTIPOLAR DELGADO 4x1.5MM²		1			0.105	
	CAVO MULTIPOLARE SOTILE 4x1.5MM²						
15	CABLE MULTIPOLAR DELGADO 3x1.5MM²		1			0.080	
	CAVO MULTIPOLARE SOTILE 3x1.5MM²						
14	CABLE MULTIPOLAR DELGADO 2x1.5MM²		1			0.055	
	CAVO MULTIPOLARE SOTILE 2x1.5MM²						
13	CABLE MULTIPOLAR DELGADO 1x1.5MM²		1			0.030	
	CAVO MULTIPOLARE SOTILE 1x1.5MM²						
12	CABLE MULTIPOLAR DELGADO 4x1MM²		1			0.070	
	CAVO MULTIPOLARE SOTILE 4x1MM²						
11	CABLE MULTIPOLAR DELGADO 3x1MM²		1			0.054	
	CAVO MULTIPOLARE SOTILE 3x1MM²						
10	CABLE MULTIPOLAR DELGADO 2x1MM²		1			0.038	
	CAVO MULTIPOLARE SOTILE 2x1MM²						
09	CABLE MULTIPOLAR DELGADO 1x1MM²		1			0.022	
	CAVO MULTIPOLARE SOTILE 1x1MM²						
08	CABLE MULTIPOLAR DELGADO 4x0.75MM²		1			0.061	
	CAVO MULTIPOLARE SOTILE 4x0.75MM²						
07	CABLE MULTIPOLAR DELGADO 3x0.75MM²		1			0.047	
	CAVO MULTIPOLARE SOTILE 3x0.75MM²						
06	CABLE MULTIPOLAR DELGADO 2x0.75MM²		1			0.033	
	CAVO MULTIPOLARE SOTILE 2x0.75MM²						
05	CABLE MULTIPOLAR DELGADO 1x0.75MM²		1			0.019	
	CAVO MULTIPOLARE SOTILE 1x0.75MM²						
04	CABLE MULTIPOLAR DELGADO 4x0.5MM²		1			0.050	
	CAVO MULTIPOLARE SOTILE 4x0.5MM²						
03	CABLE MULTIPOLAR DELGADO 3x0.5MM²		1			0.038	
	CAVO MULTIPOLARE SOTILE 3x0.5MM²						
02	CABLE MULTIPOLAR DELGADO 2x0.5MM²		1			0.026	
	CAVO MULTIPOLARE SOTILE 2x0.5MM²						
01	CABLE MULTIPOLAR DELGADO 1x0.5MM²		1			0.016	
	CAVO MULTIPOLARE SOTILE 1x0.5MM²						
MARCA	DESCRIPCION		CANT.	CÓDIGO O NORMA	MATERIAL O REFERENCIA	PESO	DIMENSIONES
MARCA	DESCRIZIONE		QUANT.	CODICE O NORMA	MATERIALE O REFERENZA	PESO (Kg)	DIMENSIONES (mm)

LOCOMOTIVA E401		0.000	A1	BEASAIN	OT	Y
		ISO 2768 -cK DIN ISO 13920-BF		<div>Power &amp; Automation</div>		
Ed.	Descrizione	Date	Nome			
X:X	Disegnato	19/06/2015	10221			
	Comprovato	19/06/2015	12199			
	Verificato	19/06/2015	14422			
		Date	Nome			
		es/it				
<div>CAF</div> <div>CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A. BEASAIN (GIPUZKOA)</div>		CABLE MULTIPOLAR DELGADO (EN 50306-4) CAVO MULTIPOLARE SOTILE (EN 50306-4)				
		B.20.75.012			A	1/1