

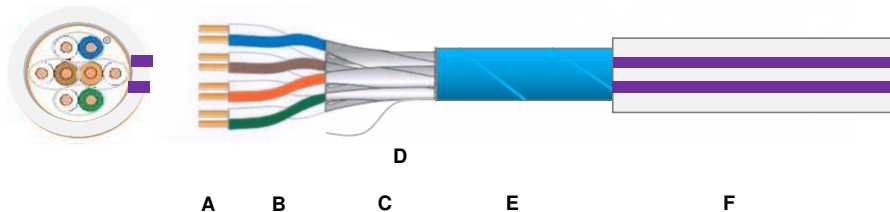
CABLE DESIGN SHEET

CABLE DESCRIPTION: *(Provisional datasheet)*
 Cat. 6A F/FTP 4x2xAWG23/1 (PVC Sheath for Indoor Installation)
FIRE CLASS: **Not Required**



CABLE CODE:
LAN 645

	(Cu)	(PEG)	(Al/Pet)	(Al/Pet)	(PVC)
Ø (mm)	0,57	1,35	PIMF		8,30



CONSTRUCTION DATA:

DIMENSIONS:

A. 4 pairs of bare copper wires	(Cu)	φ	0,57	mm
B. Skin/foam/skin Polyethylene insulation	(PEG)	φ	1,35	mm
Colour code:	pair 1:	white - blue		
	pair 2:	white - orange		
	pair 3:	white - green		
	pair 4:	white - brown		
C. Overall Al/Pet foil shielded pairs, PiMF mode	(Al/Pet)	14 x	40/23	mm x μm
D. Drain wire of tinned copper	(CuSn)	φ	0,40	mm
E. Aluminium/Polyester reversed tape spirally wound	(Al/Pet)	27 x	30/19	mm
F. Outer sheath of PVC white with two purple (RAL 4008) bands printed by inkjet:	(PVC)		8,30	mm

CAVEL LAN 645 MADE IN ITALY CAT 6A F/FTP 4x2xAWG23/1 -ISO-IEC 11801 EN50173-1
CEI-UNEL 36762 C-4 (U0 =400V) gggaan meter marking
(gggaan=batch)

Weight of copper conductors (approx):	19,8	Kg/Km	Temperature rating:	-20°C/+70°C
Total weight of cable (approx.) :	62,4	Kg/Km		
Bending radius (operation/installation):	70/35	mm		

ELECTRICAL DATA:

Characteristic Impedance (100 MHz):	100 ± 5	Ohm	Insulation resistance:	>5000	MΩ x km
Wire Capacitance (800 Hz):	105	pF/m	Conductor resistance:	73	Ohm/km
Mutual capacitance (800 Hz) :	43	pF/m	Loop resistance:	146	Ohm/km
Velocity ratio :	77	%	Sheath Insulation voltage (DC 1 min):	1	kV

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR-N (dB/100m)	SRL (dB)
1	2,1	90	87,9	25
4	3,6	90	86,4	25
10	5,4	90	84,6	25
16	6,8	90	83,2	25
20	7,7	85	77,3	25
31,25	9,6	85	75,4	25
62,5	13,7	80	66,3	25
100	17,4	80	62,6	25
155,5	21,9	80	58,1	25
250	28,1	75	46,9	25
500	40,0	70	30,0	25

STANDARDS:

ISO/IEC 11801 Class Ea ; EN50173 ; EN50288-10-1 ; CEI-UNEL 36762 ; EN50575

ITALIANA CONDUTTORI s.r.l

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Date

Feb. 01, 2024

Responsible

P.Piccinini