

INDUSTRIAL ETHERNET CABLE CAT. 5

SPECIAL PROFINET 682 1000 V

continuously flexible, type C, UL approval



ELETTROTEK KABEL® SPECIAL PROFINET 682 1000 V



Construction:

Conductor:	flexible tinned copper conductors extra fine wires, 22/19 AWG
Insulation:	polyolefin compound
Colour cores:	white/blue, yellow/orange,
Stranding:	cores stranded in star-quad
Wrapping:	polyester tape
Inner sheath:	white, polyolefin compound
1st Screen:	aluminium/polyester tape, min. 100% coverage
2nd Screen:	Tinned copper braid, min. 85% coverage
Wrapping:	non-woven tape
Outer sheath:	green (similar RAL 6018), PUR compound

Technical data:

Nominal voltage UL:	1000 V	
Test voltage:	3 kV	
Temperature range:		
<i>Fixed laying:</i>	- 40 up to +80°C	
<i>Flexible application:</i>	/	
Min. bending radius:		
<i>Fixed laying:</i>	3 x d	
<i>Flexible installation:</i>	6 x d	
Max speed (main application):	240 m/min	
Max. drag chain length:	15 m (horizontal only)	
Max. acceleration:	up to 30 m/sec ²	
Bending (chain application):	from 3 up to 6 million movements	
Conductor resistance at 20°C:	Max. 59,4	
Nominal capacitance:		
<i>core/core:</i>	53 pF/m	
Nominal impedance:	100Ω ± 15Ω acc. to EN 50288-2-2 (CAT 5e acc. to EN 50173-1)	
Attenuation:	<i>dB/100 m:</i>	
<i>Frequency (MHz):</i>	<i>Max:</i>	<i>Typical:</i>
1:	2,1	1,9
4:	4,1	3,9
10:	6,5	6,2
16:	8,3	7,8
20:	9,3	8,8
31,25:	11,7	10,7
62,5:	17	14,8
100:	22	18,9

Resistance:



Flame Test:
IEC 60332-1-2, CEI 20-35 1/2.
UL 1581, FT1 cable flame test

Features:

cAUs AWM Style 21233 80°C 1000 V, AWM I/II A/B FT1

acc. to standards:

EN 50288-1,
EN 50288-2-2,
EN 50173,
IEC 61156-3,
ISO/IEC 11801,
VDE 0295,
UL 1581,
UI 758,
CSA AWM I/II A/B FT1,
CSA C22.2 N. 210.2

RoHS and CE approval



Part no.	No. of cores x cross section n x mm ²	Insulation Ø	Inner sheath Ø	Outer Ø	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
39330HEX022A22	2x2x0,34	1,5 +/- 0,05	4,25 +/- 0,2	6,4 +/- 0,2	28	-	22

Other dimensions and colors available on request.