

SPECIAL PROFINET 682 1000 V

continuously flexible, type C, UL approval, Cat. 5e



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:		
FIXED LAYING:	- 40 UP TO +80°C	
FLEXIBLE APPLICATION:	- 30 UP TO +80°C	
MIN. BENDING RADIUS:		
FIXED LAYING:	3 x D	
FLEXIBLE INSTALLATION:	6 x D	
MAX SPEED (MAIN APPLICATION):	240 M/MIN	
MAX. DRAG CHAIN LENGHT:	15 M (HORIZONTAL ONLY)	
MAX. ACCELERATION:	UP TO 30 M/SEC ²	
BENDING (CHAIN APPLICATION):	FROM 3 UP TO 6 MILION MOVEMENTS	
CONDUCTOR RESISTANCE AT 20°C Max. Ω/km:	59,4	
NOMINAL CAPACITANCE:		
CORE/CORE:	53 PF/M	
CHARACTERISTIC IMPEDANCE:	100 Ω ± 15Ω ACC. TO EN 50288-2-2 (CAT 5E ACC. TO EN 50173-1)	
ATTENUATION:	DB/100 M:	
FREQUENCY (MHZ):	MAX:	TYPICAL:
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



HALOGEN-FREE ACC. TO:
IEC 60754-1



OIL RESISTANCE ACC. TO:
IEC 60811-2-1,
ASTM IRM 901



UV RESISTANT / SUNLIGHT RESISTANT ACC. TO:
UL1581§1200



MUD RESISTANCE ACC.TO:
NEK 606



O₃ RESISTANCE ACC. TO:
EN 50396



BIOLOGICAL SUBSTANCE RESISTANCE ACC. TO:
VDE 0282/10

Features:

cULus 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,
UL 758,
CSA AWM I/II A/B FT1,
CSA C22.2 N. 210.2

GOOD HYDROCARBONS RESISTANT

ROHS AND CE APPROVAL



Part no.	No. of cores x cross section n x mm ²	Insulation ∅	Inner sheath ∅	Outer ∅	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.