

INDUSTRIAL ETHERNET CABLE CAT. 5

SPECIAL PROFINET 681 continuously flexible, type C
SPECIAL PROFINET 682 continuously flexible, type C, UL approval










ELETTROTEK KABEL® SPECIAL PROFINET 681



Construction:

Conductor:	(SPECIAL PROFINET 681): flexible tinned copper conductors extra fine wires (SPECIAL PROFINET 682): flexible red copper conductors extra fine wires
Insulation:	(SPECIAL PROFINET 681): halogen free compound (SPECIAL PROFINET 682): PP compound
Colour cores:	white/blue, white/orange, white/green, white/brown
Stranding:	cores twisted in pairs
Wrapping:	non-woven tape
Screen:	aluminium tape and tinned copper braid
Wrapping:	non-woven tape
Outer sheath:	green (similar RAL 6018) PUR compound

Resistance:

	Self-extinguishing and flame retardant acc.to: IEC 60332-1 (SPECIAL PROFINET 682)
	Halogen-free acc.to: DIN VDE 0472, part 815, EN 50267-2-2, IEC 60754-1
	Oil resistance acc.to: DIN VDE 0282 part 10 + HD 22.10 (SPECIAL PROFINET 681) IEC 60811-2-1, ASTM IRM 901 (SPECIAL PROFINET 682)
	UV resistant / Sunlight resistant acc. to: UL1581§1200 (SPECIAL PROFINET 682)
	MUD resistance acc.to: NEK 606 (SPECIAL PROFINET 682)
	Ozone resistant acc.to: EN 50396 (SPECIAL PROFINET 682)
	Biological substance resistance acc.to: VDE 0282/10 (SPECIAL PROFINET 682)

Technical data:

Peak operating voltage:	max. 350 V (PROFINET 681)
Max. operating voltage:	125 V (PROFINET 682)
Test voltage: (PROFINET 681)	core/core 1,5 kV core/screen 1,2 kV
Test voltage: (PROFINET 682)	core/core 2 kV x 1 min core/screen 2 kV x 1 min
Temperature range <i>Fixed laying:</i>	(SPECIAL PROFINET 681) - 40 up to +90°C
<i>Flexible application:</i>	- 30 up to +70°C
Temperature range <i>Fixed laying:</i>	(SPECIAL PROFINET 682) - 40 up to +90°C
<i>Flexible application:</i>	- 30 up to +70°C
<i>Dynamic application:</i>	- 20 up to +70°C
Min. bending radius: <i>Fixed laying:</i>	5 x d (SPECIAL PROFINET 681)
<i>Fixed laying:</i>	8 x d (SPECIAL PROFINET 682)
<i>Flexible installation:</i>	10 x d
<i>Continuously flexible:</i>	12 x d
Max speed (main application):	250 m/min (PROFINET 681) 300 m/min (PROFINET 682)
Characteristic impedance:	100Ω ± 5Ω, acc. to EN 50288-2-2 (CAT 5e acc. to EN 50173-1)

Features:

 AWM STYLE 10493-20233 300 V 80°C
or  ST YLE 20978 300 V 80°C CE **(SPECIAL PROFINET 682)**

acc. to standards:
IEC 61156-6,
ISO/IEC 11801
(SPECIAL PROFINET 682)

good hydrocarbon resistant **(SPECIAL PROFINET 682)**

for SPEED see pages from 2 to 4 of catalogue

RoHS and CE approval



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.*)
39320CEX042M01	4x2x0,14	7,2	35,5	58	26
39330CEX022A22	2x2x0,34	6,8	25	-	22
39330CEX042A26	4x2x0,14	6,8	35,5	61	26