

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: **(PROFINET 681):**
flexible tinned copper conductors
extra fine wires
(PROFINET 682):
flexible red copper conductors
extra fine wires

Insulation: halogen free 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
(SPECIAL PROFINET 681 & 682)



Corrosiveness of conflagration gases acc. to:
EN 50267-2-2,
IEC 60754-2
(SPECIAL PROFINET 682)



Oil resistance acc.to:
DIN VDE 0282 part 10 + HD 22.10
(SPECIAL PROFINET 681)
IEC 60811-2-1,
ICEA S-82-552 and ASTM-oil 1
(SPECIAL PROFINET 682)



UV resistant / Sunlight resistant acc. to:
UL1581§1200
(SPECIAL PROFINET 682)



MUD resistance acc.to:
NEK 606
(SPECIAL PROFINET 682)

Technical data:

Peak operating voltage: max. 350 V

Test voltage: core/core 1,5 kV
core/screen 1,2 kV

Temperature range

Fixed laying: - 40 up to +90°C

Flexible application: - 30 up to +70°C

Min. bending radius:

Fixed laying: 5 x d

Flexible installation: 10 x d

Continuously flexible: 12 x d

Max speed (main application): 250 m/min

Characteristic impedance: 100Ω ± 5Ω, acc. to EN 50288-2-2
(CAT 5e acc. to EN 50173-1)

Features:

AWM 10493-20233 300V/80°C CE
(SPECIAL PROFINET 682)

acc. to standards:
EN 50288-1,
EN 50288-2-2,
EN 50173,
IEC 61156-3,
ISO/IEC 11801
(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	7,3	35,5	60	26