

NETWORK CABLE SERIES 155411-5xxx
ProfiNET TYPE C - 2x2x22AWG shield - PVC jacket
UL US Style 2464 (80°C / 300V)

1. CONSTRUCTION DATA

1.1 CONDUCTOR:

Tinned copper strand; according to EN 13602 - ETP1; stranding according to DIN VDE 0295, EN60228 Class 6 Stranded lay compliant with UL 758.

1.2 WIRE STRUCTURE:

Nominal section (mm ²)	AWG	Stranding (nbr of wires x wire diameter in mm)	Diameter of stranded core (mm)	Max Resistance Ref. std. IEC 60344 (Ω/km)
0.34	22	19x0.15	0.75	64.2

1.3 INSULATION:

Thermoplastic PE; Max Insulation resistance >200 MΩxkm (IEC60189-1&IEC60885-1 or EN50289-1-4); nominal hardness 61 Shore D; according to UL758, cores colours refer to Annex #1

1.4 INSULATION DIAMETER

Nominal section (mm ²)	Nominal Ø (mm)	Nominal thickness (mm)
0.34	1.45	0.38

1.5 ASSEMBLY:

Cores stranded together.

1.6 INNER JACKET:

Flame retardant compound. Nominal diameter 4.30mm, colours natural.

1.7 TAPES:

Wrap over assembly and if needed over inner jacket.

1.8 BRAID SHIELD:

Tin copper wire, nominal optical coverage 80%.

1.9 JACKET:

PVC compound, nominal hardness 88 Shore A; Silicone, Pb,Cd,Hg & FCKW free; according to UL758.
For overall diameter, jacket colour refer to Annex #1.

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2. TECHNICAL DATA

2.1 ELECTRICAL:

Voltage rating	300 Vrms
Voltage test on core	1500 Vrms x 1 min. (EN50395)

2.2 TEMPERATURE:

Temperature range (fixed)	-20°C to +80°C
Temperature range (flex)	+5°C to +70°C (free motion without periodic recurrence and forced guidance)

2.3 CHEMICAL:

Oil resistance	ISO 6722 (20h @ 50°C – IRM902 oil)
Free of FCKW, Silicone and Pb	yes
Halogen free	no

2.4 PHYSICAL:

UV resistant	yes (UL1581/2556– 300h)
Max installation pulling force	50N
Bending radius (fixed)	>7.5xOD
Bending radius (flex)	>15xOD
Drag chain use	---
Torsion	---

2.5 FLAME:

UL Vertical Flame Test	pass
UL VW-1, CSA FT-1	pass
IEC 60332-1	pass
IEC 60332-2	pass

3. COMPLIANCE

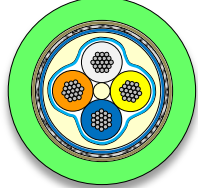
Accordance to:	<ul style="list-style-type: none"> ▪ 2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS) ▪ ProfiNET cabling and interconnection technology Guideline for ProfiNET (3.1 March 2014) ▪ Cat.5e flex patch cord ▪ UL/CSA (UL AWM Style 2464, use: Internal wiring or external interconnection of electronic equipment)
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4. PRINTING & PACKAGE

Printing text	Ink-jet type; conform to UL758
Package	available in different packaging sizes (<i>refer to Annex #1</i>)

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ANNEX 1

mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*
0,34	22	2x2	6,8	Green RAL 6018	S	3x100m	1554115001	
				Green RAL 6018	M	1x500m	1554115002	
				Green RAL 6018	L	1x1000m	1554115003	

*Colour Sequence
for packaging size L: colors clockwise exit drum (as in sketch)
for packaging size S and M; colors counterclockwise

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