

PRODUCT SPECIFICATION



NETWORK CABLE SERIES 155421-5xxx ProfiNET TYPE C - 2x2x22AWG shield - WSOR jacket ("Weld-Slag and Oil-Resistant") Style 21215 (80°C / 600V)

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 (mm²)	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 M Ω xkm (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	Nominal Ø	Nominal thickness	
(mm²)	(mm)	(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:

Special compound Polyurethane based, nominal hardness 78 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 600 Vrms

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

2.2 TEMPERATURE:

Temperature range (fixed) -40°C to +80°C

Temperature range (flex) -10°C to +70°C (free motion without periodic recurrence and forced guidance)

2.3 CHEMICAL:

Oil resistance UL758/UL2556 (4 days @ 100°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 (@ 20°C) >15xOD (max cycles 2Mio in a freely suspended chain)*

Torsion (@ 20°C) ± 30°/m (max cycles 2Mio)*

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: • 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

Weld Slag Resistance: yes, S-300 Molex test

UL/CSA (UL AWM Style 21215, use: external interconnect

or internal wiring of electronic equipment

4. PRINTING & PACKAGE

Printing text Ink-jet type; conform to UL758

Package available in different packaging sizes (refer to Annex #1)

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^{*}Default criterium of the norm-bendings is electrical failure due to conductor breakage or conductor short-circuit. Extreme sheath adhesion is not a default criterium since it cannot be influenced by the cable manufacturer (e.g. through big abrasion between cable and chain, non-suitable chain construction or wrong installation of cable in the chain).



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ANNEX 1

mm²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*
				Green RAL 6018	S	3x100m	1554215001	
0.34		2x2 6,8	Green RAL 6018	М	1x500m	1554215002		
0,34 22 2x2	0,8	Green RAL 6018	L	1x1000m	1554215003			
		Green RAL 6018	N.A.	Use as component in cordsets 130048 - 120108	1202098313	Yellow-Blue-Orange		

^{*}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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