

NETWORK CABLE SERIES 155421-6xxx
EtherNET-Cat5e (2 or 4 pairs) shield - WSOR jacket (“Weld-Slag and Oil-Resistant”)
Style 21215 (80°C / 600V)

1. CONSTRUCTION DATA

1.1 CONDUCTOR:

Bare 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)
0.14	26	19x0.10	0.50	145.8
0.22	24	19x0.12	0.60	97.5

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 colors refer to Annex #1

1.4 INSULATION DIAMETER

Nominal section (mm ²)	Nominal Ø (mm)	Nominal thickness (mm)
0.14	1.00	0.25
0.22	1.15	0.28

1.5 ASSEMBLY IN PAIRS:

Cores twisted in pairs (2 or 4) with different lay.

1.6 ASSEMBLY:

Pairs stranded together

1.7 TAPE:

Wrap over assembly.

1.8 TAPE SHIELD:

Aluminum/PET tape (Al face outside), nominal optical coverage 100%.

1.9 BRAID SHIELD:

Tin copper wire, nominal optical coverage 80%.

1.10 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.

REVISION HISTORY Rev.A 04/11/2015 RELEASED	ECR/ECN INFORMATION:	TITLE: EtherNET Cat5e – WSOR jacket	Page 1 of 3
Document Number: 1554216001 PS P1E A	Created/Revised by: M. Arrigoni	Checked by: A. Defendi	Approved by: C. Lerosé

2. TECHNICAL DATA

2.1 ELECTRICAL:

Voltage rating	600 Vrms
Voltage test on core	2000 Vrms x 1 min. (EN50395)

2.2 TEMPERATURE:

Temperature range (fixed)	-40°C to +80°C
Temperature range (flex)	-10°C to +60°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)	>10xOD
Bending radius (flex)	>15xOD
Drag chain use (@ 20°C)	>15xOD (max cycles 2Mio in a freely suspended chain)*

*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).

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:

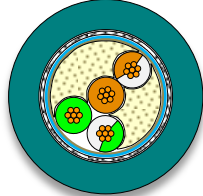
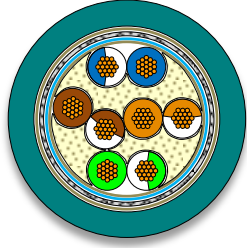
- 2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS)
- EtherNET cabling and interconnection technology
- Cat.5e flex patch cord
- Weld Slag Resistance: yes S-300 Molex test
- UL/CSA (UL AWM Style 21215, use: external interconnect or internal wiring of electronic equipment)

4. PRINTING & PACKAGE

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

REVISION HISTORY Rev.A 04/11/2015 RELEASED	ECR/ECN INFORMATION:	TITLE: EtherNET Cat5e – WSOR jacket	Page 2 of 3
Document Number: 1554216001 PS P1E A	Created/Revised by: M. Arrigoni	Checked by: A. Defendi	Approved by: C. Lerose
THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION Template: TDS REV.0 22/07/2015			

ANNEX 1

mm ²	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*
0,14	26	2X2	6,5	Teal	S	3x100m	1554216001	<p>2x2</p>  <p>(Green-White/Green) (Orange-White/Orange)</p> <p>4x2</p>  <p>(Green-White/Green)-(Brown-White/Brown) (Blue-White/Blue)-(Orange-White/Orange)</p>
				Teal	M	1x500m	1554216002	
				Teal	L	1x1000m	1554216003	
		4x2	7,2	Teal	S	3x100m	1554216004	
				Teal	M	1x500m	1554216005	
				Teal	L	1x1000m	1554216006	
0,22	24	2X2	7,0	Teal	S	3x100m	1554216007	
				Teal	M	1x500m	1554216008	
				Teal	L	1x1000m	1554216009	
		4x2	7,8	Teal	S	3x100m	1554216010	
				Teal	M	1x500m	1554216011	
				Teal	L	1x1000m	1554216012	

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

REVISION HISTORY

Rev.A 04/11/2015 RELEASED

ECR/ECN INFORMATION:

TITLE:

EtherNET Cat5e – WSOR jacket

Page

3 of 3

Document Number:

1554216001 PS P1E A

Created/Revised by:

M. Arrigoni

Checked by:

A. Defendi

Approved by:

C. Lerose

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Flamar](#) manufacturer:

Other Similar products are found below :

[155220-0241 \(15 Meters\)](#) [155421-6001 \(5 Meters\)](#) [155421-6010 \(5 Meters\)](#) [155240-0064 \(15 Meters\)](#) [155220-0139 \(15 Meters\)](#) [155421-1004 \(5 Meters\)](#) [155240-0184 \(15 Meters\)](#) [155240-0184 \(5 Meters\)](#) [155421-5001 \(15 Meters\)](#) [155240-0190 \(5 Meters\)](#) [155220-0064 \(5 Meters\)](#) [155240-0088 \(15 Meters\)](#) [155421-6004 \(5 Meters\)](#) [155421-6004](#) [155421-6001](#) [155421-5001](#) [155421-6004 \(15 Meters\)](#) [155240-0190 \(15 Meters\)](#) [155220-0115](#) [155421-6010 \(15 Meters\)](#) [155421-1004 \(15 Meters\)](#) [155321-9007](#) [155240-0064 \(5 Meters\)](#) [155421-6001 \(15 Meters\)](#) [155240-0184](#) [155240-0190](#) [155321-0001](#) [155220-0139](#) [155220-0253](#) [155221-0025](#) [155421-1004](#)