



EventSeries®

CAT5e U/UTP 24/7awg 4pair Upjacketed

Tactical Ethernet <350MHz>



Application

Tactical ethernet cable for transmission lengths up to 350MHz. The compounds used in the unique dual jacket make the cable supple and agile. Outer jacket can be removed easily to allow termination to standard RJ45 connectors on the inner sheath. Alternatively our oversized connector PGSKL or Tool-less Field connectors can be used. (see specification table)

Cable Design

Conductor	Stranded bare copper wire, 24 awg (7/0,203mm)
Insulation	Solid Polyethylene (PE) : Ø 1,01 mm
Pairs	2 insulated conductors twisted to a pair
Lay up	4 pairs stranded
Inner Jacket	Flexible Technical Polymer Compound : Ø 5,50 ± 0,20 mm
Outer Jacket	Flexible Technical Polymer Compound : Ø 7,50 ± 0,25 mm

Pair Identification

Pair 1	White/Blue stripe	& Blue
Pair 2	White/Orange stripe	& Orange
Pair 3	White/Green stripe	& Green
Pair 4	White/Brown stripe	& Brown

Electrical Data

Conductor DC Resistance @ 20 °C	< 9,13	Ohm/100M
Min. Insulation DC Resistance @ 20 °C	> 200	MOhm *M
Rated Voltage	150	V
Rated Temperature	80	°C
Impedance	1-100 MHz	100±15 Ohm
	100-250 MHz	100±20 Ohm
	250-350 MHz	100±22 Ohm

Technical Specification | Page 1 of 2





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Transmission Characteristics*

Frequency (MHz)	Attenuation (dB ± 15%)	Min. Return Loss (dB)	Min. NEXT Worst Pair (dB)
1	2,40	20,0	65,3
4	4,90	23,0	56,3
8	6,90	24,5	51,8
10	7,80	25,0	50,3
16	9,90	25,0	47,3
20	11,10	25,0	45,8
25	12,50	24,2	44,3
31,25	14,10	23,3	42,9
62,5	20,40	20,7	38,4
100	26,40	19,0	35,3
115	33,70	18,8	32,4
200	38,98	18,0	30,8
250	44,20	17,3	29,3
300	49,20	16,8	28,1
310	50,20	16,7	27,9
350	53,80	16,3	27,1

*Installation length up to 100m acc. to Cat5e standards.

Specification

Part Number	Inner Jacket Diameter [mm]	Overall Diameter [mm]	PGSXL connector [for use over outer jacket]	PGSMC Tool-Less Field connector [for use over outer jacket]
2442	5,50 ± 0,20	Ø 7,50 ± 0,25	Link	Link