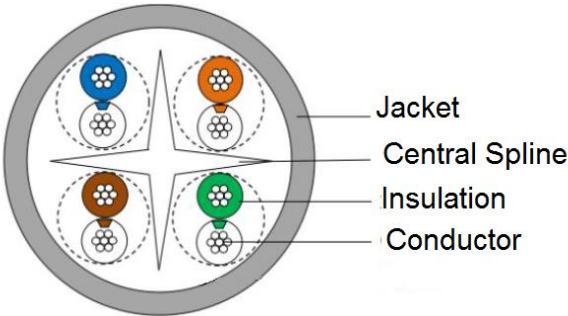


50106XU Industrial LAN Cable CAT6 U/UTP with Stranded Conductor

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

U/UTP CAT6 4*2*24AWG, stranded bare copper conductors, Polyolefin insulation, twisted pairs (Unbonded) insulation color scheme reference color code chart (below) , central spline, PVC jacket. LAN cable

SUITABLE APPLICATIONS:

Suitable Applications	Industrial Ethernet cables used in interconnecting Industrial Ethernet Switches, IP controllers, media convertors, distributed control system, programmable logic controller and transmitting industrial protocol data signals. These are highly durable & ruggedized cables for both indoor and outdoor use meeting IEC 60332-1 flame rating.
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	Strand conductor wires
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Solid polyethylene
Pair Color Code Chart:	

Pair Number	Insulation Color	
	Wire 1	Wire 2
1	Blue	White with Blue Marking
2	Orange	White with Orange Marking
3	Green	White with Green Marking
4	Brown	White with Brown Marking

OVERALL CABLING:

Overall Cabling Fillers	Central Spline
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OVERALL SCREEN:

Overall Screen Material	Unshielded
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	No

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	6.3 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	- 20°C To + 75°C
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	50.4 mm

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

IEC Specification	11801 Category 6
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Sept 2007
TIA Specification	568-C.2 Category 6

FLAME TEST:

IEC Flame Test	IEC 60332-1
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SUITABILITY:

Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	Y
Sunlight Resistance (Y/N)	Y
Oil Resistance	Y
Non-halogenated	N

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	5.6 nF/100m
Maximum Capacitance Unbalance	330 pF/100m
Nominal Velocity of Propagation	65 %
Maximum Delay @ 100 MHz	538 ns/100m
Maximum Delay Skew	45 ns/100m
Maximum Conductor DC Resistance @ 20 Deg.C	14.0 Ohms/100m
Delay Skew	≤45 ns/100m
Maximum DCR Unbalance @ 20 Deg.C	5 %

ELECTRICAL CHARACTERISTICS - PREMISES:

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Premise Cable Electricals Table 1:

Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Return Loss (dB)	Min. ACRF (dB)	Min. PS ACRF (dB)
1	2.4	74.3	72.3	20.0	67.8	64.8
4	4.5	65.3	63.3	23.0	55.8	52.8
8	6.4	60.8	58.8	24.5	49.7	46.7
10	7.1	59.3	57.3	25.0	47.8	44.8
16	9.1	56.2	54.2	25.0	43.7	40.7
20	10.2	54.8	52.8	25.0	41.8	38.8
25	11.4	53.3	51.3	24.2	39.8	36.8
31.25	12.8	51.9	49.9	23.3	37.9	34.9
62.5	18.5	47.4	45.4	20.7	31.9	28.9
100	23.8	44.3	42.3	19.0	27.8	24.8
200	34.8	39.8	37.8	16.4	21.8	18.8
250	39.4	38.3	36.3	15.6	19.8	16.8

NOTES:

Notes

Jacket sequentially marked.

PUT-UPS AND COLORS:

Item	Description	Put-Up (meters.)	Jacket Color
50106XU 006305M	CAT6 U/UTP 4 PR #24 Strand conductor PO PVC	305M	BLU
50106XU 008305M	CAT6 U/UTP 4 PR #24 Strand conductor PO PVC	305M	GRY
50106XU 010305M	CAT6 U/UTP 4 PR #24 Strand conductor PO PVC	305M	BLK

Revision Number: 1

Revision Date: 7/12/2018

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