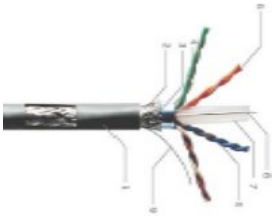
Detailed Specifications & Technical Data (DRAFT ONLY)

BELDEN
SENDING ALL THE RIGHT SIGNALS

CI6522 Paired - Category 6 Unbonded – SF/UTP Cable



For more information please call
1-800-Belden1

See Put-ups and Colors

Related Documents: No.8 for Data Twist Cables (Modified Western Electric).pdf

Description:

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, central spline, overall cabling tape, foil shield plus solid drain wire, tinned copper braid, PVC jacket.

SUITABLE APPLICATIONS:

Suitable Applications	Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, 250MHz Category 6

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

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

INSULATION:

Insulation Material	PO - Polyolefin
Pair Color Code Chart:	

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

OVERALL CABLING:

Overall Cabling Fillers	Central Spline
Overall Cabling With Separation Tape	Yes

OUTER SHIELD:

Outer Shield Material	Aluminum Foil – Polyester Tape
Outer Shield Drain Wire Material	TC – Tinned Copper

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Outer Shield Braid Layer Material	TC – Tinned Copper
Outer Shield Braid Coverage	≧40%
OUTER JACKET:	
Outer Jacket Material	PVC - Polyvinyl Chloride
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	7.6 mm
MECHNICAL CHARACTERISTICS:	
Operating Temperature Range	- 20℃ To + 75℃
Bulk Cable Weight	55 kg/km
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	61 mm
APPLICABLE SPECIFICATION AGENCY COMPLIANCE:	
APPLICABLE STANDARDS:	
UL Specification	CM
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:	
UL Flame Test	UL 1685 Loading
SUITABILITY:	
Suitability – Indoor (Y/N)	Y
Non-halogenated	N
PLENUM/NON-PLENUM:	
Plenum (Y/N)	N
ELECTRICAL CHARACTERISTICS:	
Nom. Mutual Capacitance @ 1 KHz	5.6 nF/100m
Maximum Capacitance Unbalance	160 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	95 Ohms/km
Maximum DCR Unbalance @ 20 Deg.C	2 %
Characteristic Impedance	100 ± 15 Ohms
Max. Operating Voltage - UL	300 V

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ELECTRICAL CHARACTERISTICS - PREMISES:

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. PSACRF (dB)
4	3.8	66.3	63.3	23.0	56.0	53.0
8	5.4	61.8	58.8	24.5	49.9	46.9
10	6.0	60.3	57.3	25.0	48.0	45.0
16	7.6	57.2	54.2	25.0	43.9	40.9
20	8.5	55.8	52.8	25.0	42.0	39.0
25	9.6	54.3	51.3	24.3	40.0	37.0
31.25	10.7	52.9	49.9	23.6	38.1	35.1
62.5	15.5	48.4	45.4	21.5	32.1	29.1
100	19.9	45.3	42.3	20.1	28.0	25.0
150	24.8	42.7	39.7	18.9	24.5	21.5
200	29.1	40.8	37.8	18.0	22.0	19.0
250	33	39.3	36.3	17.3	20.0	17.0

NOTES:

Notes	Jacket sequentially marked.

PUT-UPS AND COLORS:

Item	Description	Put-Up (meters.)	Ship Weight (kg)	Jacket Color

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