

## CI6522

## Paired - Category 6 Unbonded – SF/UTP Cable

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Related Documents: No.8 for Data Twist Cables (Modified Western Electric).pdf</b></p>
---	---

### 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
Insulation Nominal Diameter	1.10 mm For Blue & Green 1.02 mm For Orange & Brown
Pair Color Code Chart:	

Pair Number	Insulation Color	
	Wire 1	Wire 2
1	Blue	White
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

## CI6522

## Paired - Category 6 Unbonded – SF/UTP Cable

### OUTER SHIELD:

Outer Shield Material	Aluminum Foil – Polyester Tape
Outer Shield Drain Wire Material	TC – Tinned Copper
Outer Shield Braid Layer Material	TC – Tinned Copper
Outer Shield Braid Coverage	≥ 40 %

### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

### OVERALL NOMINAL DIAMETER:

Nom. Overall Diameter	7.6 mm
-----------------------	--------

### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	- 20°C To + 75°C
Bulk Cable Weight	55.4 kg/km
Max. Recommended Pulling Tension	110 N
Min. Bend Radius (Install)	61 mm

### APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
IEC Specification	11801 Class E
EU RoHS Specification	2015/863/EU
TIA Specification	568.2-D 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
Max. Capacitance Unbalance	160 pF/100m
Nom. Velocity of Propagation	65 %
Max. Delay @ 100 MHz	538 ns/100m
Max. Delay Skew	45 ns/100m
Max. Conductor DC Resistance @ 20 Deg.C	93.8 Ohms/km

## CI6522

## Paired - Category 6 Unbonded – SF/UTP Cable

Max. DCR Unbalance @ 20 Deg.C	2 %
Characteristic Impedance	100 ± 15 Ohms
Max. Operating Voltage	72 V DC

### ELECTRICAL CHARACTERISTICS - PREMISES:

Premise Cable Electricals Table 1:

Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Return Loss (dB)	TCL	ELTCTL	Min. ACRF (dB)	Min. PSACRF (dB)
4	3.8	66.3	63.3	23.0	40	23	56.0	53.0
10	6.0	60.3	57.3	25.0	40	15	48.0	45.0
16	7.6	57.2	54.2	25.0	38	10.9	43.9	40.9
20	8.5	55.8	52.8	25.0	37	9	42.0	39.0
31.25	10.7	52.9	49.9	23.6	35.1	5.1	38.1	35.1
62.5	15.5	48.4	45.4	21.5	32	/	32.1	29.1
100	19.9	45.3	42.3	20.1	30	/	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	27	/	22.0	19.0
250	33	39.3	36.3	17.3	26	/	20.0	17.0

### NOTES:

Notes	Jacket sequentially marked.
-------	-----------------------------

### PUT-UPS AND COLORS:

Item	Description	Put-Up (meters.)	Ship Weight (kg)	Jacket Color
CI6522 006305M	4PR 24 AWG CAT 6 SF/UTP	305	17.1	BLU
CI6522 008305M	4PR 24 AWG CAT 6 SF/UTP	305	17.1	GRY
CI6522 010305M	4PR 24 AWG CAT 6 SF/UTP	305	17.1	BLK

Revision Number: 5

Revision Date: 03-11-2023

©Copyright 2022 Belden, Inc  
All Rights Reserved.

Although Belden ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.