

**Detailed Specifications &
Technical Data**



1668A Paired - DataTwist® Category 5

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : No. 8 for DataTwist Cables (Modified Western Electric).pdf</p>
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Description:

Siamese 2x4 Pair ScTP, 100MHz Category 5 TSB 36, Vertical Tray Rated, 24 AWG Solid Bare Copper, Polyolefin Insulation, Foil Shield, PVC Jacket, Rip Cord, Sequential Marking at Two Foot Intervals

SUITABLE APPLICATIONS:

Suitable Applications	Premise Horizontal Cable
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	8
Total Number of Conductors	16
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO - Polyolefin
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Pair Color Code Chart :

Number	Color	Number	Color
1	White/Blue Stripe & Blue	3	White/Green Stripe & Green
2	White/Orange Stripe & Orange	4	White/Brown Stripe & Brown

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield % Coverage	100 %

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	Solid

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Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.518 x .254 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	60 lbs/1000 ft.
Max. Recommended Pulling Tension	50 lbs.
Min. Bend Radius (Install)	2.4 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM, UL444
CEC/C(UL) Specification	CM
TIA/EIA Specification	568 TSB 36, Category 5
Other Specification	Each Leg ETL verified to TSB 36 Category 5

FLAME TEST:

UL Flame Test	UL1581 Vertical Tray
CSA Flame Test	FT1

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	330 pF/100 m
Nominal Velocity of Propagation	67 %
Maximum Delay (ns/100 m)	538 @ 100MHz ns/100 m
Maximum Delay Skew (ns/100m)	45 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9.38 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	5 %
Max. Operating Voltage - UL	300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE:

Premise Cable Electricals :	
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Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Structural Return Loss (dB)	Fitted Impedance (Ohms)
1	2.0	62.3	No Spec	No Spec	100 ± 15%
4	4.1	53.3	No Spec	No Spec	100 ± 15%
8	5.8	48.8	No Spec	No Spec	100 ± 15%
10	6.5	47.3	No Spec	No Spec	100 ± 15%
16	8.2	44.3	No Spec	No Spec	100 ± 15%
20	9.3	42.8	No Spec	No Spec	100 ± 15%
25	10.4	41.3	No Spec	No Spec	100 ± 15%
31.25	11.7	39.9	No Spec	No Spec	100 ± 15%
62.5	17.0	35.4	No Spec	No Spec	100 ± 15%
100	22.0	32.3	No Spec	No Spec	100 ± 15%

NOTES:

Notes	Leg One = 4pr Cat 5, Leg Two = 4pr Cat 5, Color code and shielding applies to both legs, A polarity rib is applied to one leg. Not Compatible with RJ11/12/45 Connectors. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-TSB 36, Category 5 (Leg 1 & 2).
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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1668A F6H1000	2 X 4 PR 24 PP PVC PARA	1000	70	GRAY, DARK PEARL	C Z
1668A F6H1640	2 X 4 PR #24 PP PVC PARA	1640	109.88	GRAY, DARK PEARL	C N

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 09-09-2004

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