

## Szczegółowa specyfikacja techniczna

Kabel 2424D – kategoria 6, U/UTP, LSNH



### Zastosowanie

Okablowanie poziome w systemach kategorii 6 i 5e, 1000Base-T, 100Base-T, 10Base-T, FDDI, ATM

### Charakterystyka fizyczna

#### Przewodnik

Cztery pary  
Jednodrutowa żyła miedziana  
AWG24

#### Izolacja

Materiał – Polyetylen  
Nominalna średnica izolacji – 1,0mm

#### Płaszcz zewnętrzny

Materiał – LSNH (Low Smoke No Halogen)  
Ripcord – linka do rozprucia płaszcza izolacyjnego  
średnica –  $5,5 \pm 0,3$ mm  
Dostępne Kolory – Niebieski

#### Kolory par

- 1 Biały/Niebieski - Niebieski
- 2 Biały/Pomarańczowy - Pomarańczowy
- 3 Biały/Zielony - Zielony
- 4 Biały/Brązowy - Brązowy

### Szczegółowe parametry

#### Electrical characteristics

Reference standard: ANSI/TIA/EIA-568 B.2.1

Low frequency and D.C. (at 20°C)	Specification	Unit
D.C. resistance conductor	< 9.38	$\Omega$ /100m
Resistance unbalance: within a pair / between pairs	< 2 / < 4	%
Insulation resistance	$\geq 5000$	M $\Omega$ .km
Dielectric strength conductor-conductor (2 sec.)	2.5	kV DC
Mutual capacitance	< 56	nF/km
Capacitance unbalance pair to ground	< 1600	pF/km
Nominal velocity of propagation (for information only)	0.70	C
Delay skew (differential delay)	$\leq 25$	ns/100m

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
0.772	1.800	77.0	75.0	75.2	73.2	
1	2.000	75.3	73.3	73.3	71.3	20.000
4	3.700	66.3	64.3	62.6	60.6	23.000
8	5.200	63.3	61.3	58.1	56.1	24.500
10	5.800	61.8	59.8	56.0	54.0	25.000
16	7.400	58.6	56.6	51.2	49.2	25.000
20	8.300	57.1	55.1	48.8	46.8	25.000
25	9.300	55.5	53.5	46.3	44.3	24.300
31.25	10.400	54.0	52.0	43.6	41.6	23.600
62.5	15.000	49.1	47.1	34.1	32.1	21.500
100	19.300	45.8	43.8	26.5	24.5	20.800
155	24.500	42.7	40.7	18.2	16.2	19.500
200	28.300	40.9	38.9	12.6	10.6	18.700
250	32.100	39.3	37.3	7.2	5.2	18.000
300	35.600	38.1	36.1	2.5	-0.5	17.500
350	38.900	37.1	35.1	-1.7	-3.7	17.000
400	42.000	36.3	34.3	-5.7	-7.7	16.600
450	45.000	35.5	33.5	-9.5	-11.5	16.200
500	47.900	34.8	32.8	-13.0	-15.0	15.900
550	50.600	34.2	32.2	-16.4	-18.4	15.600

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
0.772		102 ± 15	73.0	70.0
1	100 ± 15	102 ± 15	70.8	67.8
4	100 ± 15	100 ± 15	58.8	55.8
8	100 ± 15	100 ± 15	52.7	49.7
10	100 ± 15	100 ± 15	50.8	47.8
16	100 ± 15	100 ± 15	46.7	43.7
20	100 ± 15	100 ± 15	44.8	41.8
25	100 ± 15	100 ± 15	42.8	39.8
31.25	100 ± 15	100 ± 15	40.9	37.9
62.5	100 ± 15	100 ± 15	34.9	31.9
100	100 ± 15	100 ± 15	30.8	27.8
155	100 ± 22	100 ± 15	27.0	24.0
200	100 ± 22	100 ± 15	24.8	21.8
250	100 ± 32	100 ± 15	22.8	19.8
300	100 ± 32	100 ± 15	21.3	18.3
350			19.9	16.9
400			18.8	15.8
450			17.7	14.7
500			16.8	13.8
550			16.0	13.0

## Mechanical characteristics

Low frequency and D.C. (at 20°C)	Specification	Unit
Elongation at break of the conductors	8	%
Minimum elongation at break of the insulation	≥ 100	%
Minimum elongation at break of the sheath	≥ 100	%
Tensile strength of sheath	< 9	MPa

## Environmental and overall characteristics

Low frequency and D.C. (at 20°C)	Specification	Unit
Maximum operating voltage (for all temperatures cable is intended to be used)	300	V RMS
Maximum continuous current per conductor (@25°C)	1.5	A
Temperature rating installation	0 / 50	°C
Temperature rating operation	- 20 / 75	°C
Total cable weight	33	kg/km
Minimum bending radius (during operation and installation)	22 / 44	mm
Maximum pulling strength	80	N
Burning load	350	kJ/m
Smoke density acc. to IEC 61034-1/2 & EN50268-1/2; transmittance	> 60	%
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; pH	> 4.3	
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; Conductivity	< 10	µS/m
Fire performance according IEC 60332-1	Pass	



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.