



1061 and 2061 High Performance LAN Cables

High Performance LAN Cables for Use with SYSTIMAX® Structured Connectivity Solutions (SCS)

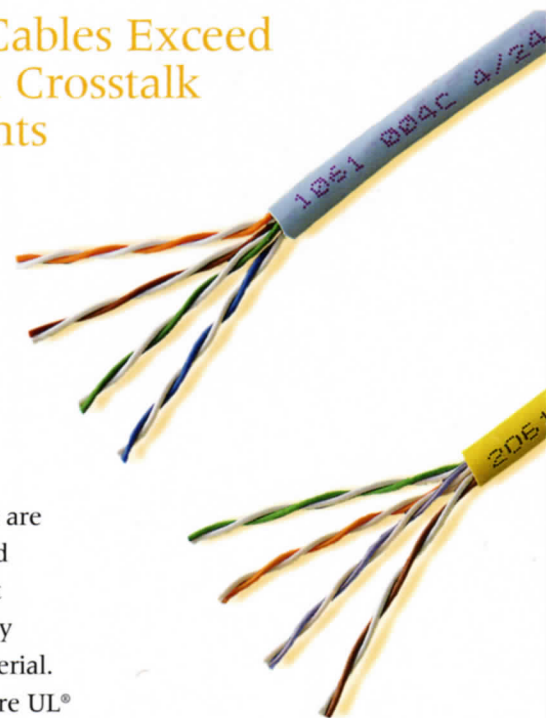
The 1061B+ and C+ and 2061B+ cables are high-speed, 100 Ohm, high performance cables for use in the SYSTIMAX Structured Connectivity Solutions (SCS) wiring plan.

These cables are capable of carrying high bit rate signalling for extended distances in building distribution systems. They can transmit IBM® 3270, IEEE® 802.3, 10BASE-T, 100BASE-TX, 100BASE-T4, IEEE 802.5, 4 & 16 Mbps Token Ring, IEEE 802.12, 100VG-AnyLAN, ANSI® X3T9.5, 100 Mbps TP-PMD and ATM Forum requirements: 155.5 Mbps ATM.

Supports 622 Mbps ATM using emerging parallel transmission scheme technology over these cables in conjunction with other SYSTIMAX SCS components. The 1061B+ and C+ and 2061B+ cables are also useful for coaxial replacement for single channel and broadband video. Both types can be used in all SYSTIMAX SCS Approved unshielded twisted pair applications.

Enhanced Cables Exceed Power Sum Crosstalk Requirements

The 1061B+ and C+ cables are composed of 24 AWG, bare, solid copper conductors insulated with high density polyolefin. The insulated conductors are twisted into pairs and jacketed with Lucent Technologies specially formulated PVC material. The 1061C+ cables are UL® Listed Type CM for general purpose use. The 1061B+ and 25-pair 1061C+ cables are UL Listed Type CMR, c(UL) CMG.



Swept Frequency Margin (EIA/TIA 568A Requirement)

Units	Category 5 Spec	Pair/Pair NEXT Margin (AVG)	Power Sum NEXT Margin (AVG)	SRL Margin (AVG)
db100m	≥0	7.1	5.2	4.7

Typical worst pair margin represents the typical average margin of the worst performing pair in a cable when measured against the EIA/TIA 568A swept frequency requirement indicating the true cable performance across the frequency range

The 2061B+ 4-pair cable consists of 24 AWG, bare solid copper conductors insulated with FEP (Fluorinated Ethylene Propylene). The insulated conductors are twisted into pairs and jacketed with low smoke PVC (LSPVC). The 2061B+ cable is UL Verified Category 5, UL and c(UL) Listed Type CMP for use in air return handling spaces.

Both the 1061B+ and C+ and 2061B+ cables have enhanced electrical performance exceeding Pair-to-Pair and Power Sum NEXT measurements, SRL and cable balance. The improved Power Sum cables are measured in accordance with ASTM² D4566.

Features

- EIA/TIA 568A Category 5 Compliant; UL Verified Category 5
- UL Listed Type CM (1061C+ 4-pair); UL and c(UL) Listed Type CMP (2061B+)
- Meets IEC 11801 standard (1061C+)
- UL Listed Type CMR and c(UL) CMG for 1061B+ and 1061C+ (25-pair)
- Excellent Pair-to-Pair NEXT measurements
- Meets Power Sum specifications of EIA/TIA 568A imposed for backbone cables

- Typical channel ACR greater than 10db at 130 MHz
- Supports parallel transmission schemes
- Enhanced SRL, ACR and cable balance performance
- 2061B+ is available in several packaging options including REEL-TOTE.

Advantages

- Excellent high-speed and error free transmission up to at least 155 Mbps
- Supports 622 Mbps ATM to the desktop via 4-pair parallel transmission
- SYSTIMAX SCS Certified Product
- Meets ANSI X3T9.5 requirements for UTP at 100 Mbps (TP-PMD) and ATM Forum requirements: 155.5 Mbps ATM
- Supports Broadband and Baseband video applications (77 channels supported at 550 MHz)
- Supports all current IEEE 802.3, IEEE 802.5 and 802.12 Standards applications (Ethernet, Token Ring, TP-PMD)
- Compatible with Lucent Technologies 110 Cross-Connect System.

Representative Electrical Transmission Characteristics

Mutual Capacitance - Nom.: 14pF/ft. (46pF/m)
Characteristic Impedance: 100 (± 15) Ohms 1-100 MHz
DC Resistance - Max.: 28.6 Ohms/1000 ft. (9.4 Ohms/100m)

Frequency MHz	Attenuation dB/100m		Power Sum Near End Crosstalk dB		Pair-to-Pair Near End Crosstalk		Attenuation to Crosstalk Ratio dB/90m		Structural Return Loss dB	
	Lucent Cable	Cat 5 Spec	Lucent Cable	Cat 5 Spec	Lucent Cable	Cat 5 Spec	Lucent Cable	Cat 5 Spec	Lucent Cable	Cat 5 Spec
0.772	1.7	≤1.18	74	≥64	76	≥64	74.0	≤ 62.4	TBD	≥ 23
1	1.9	≤2.0	72	≥62	74	≥62	72.6	≤ 60.5	44	≥ 23
4	3.9	≤4.1	64	≥53	66	≥53	62.1	≤ 49.6	40	≥ 23
8	5.4	≤5.8	60	≥48	62	≥48	56.7	≤ 43.6	38	≥ 23
10	6.1	≤6.5	58	≥47	60	≥47	54.7	≤ 41.5	37	≥ 23
16	7.8	≤8.2	56	≥44	59	≥44	50.7	≤ 36.8	36	≥ 23
20	8.7	≤9.3	54	≥42	56	≥42	48.3	≤ 34.4	35	≥ 23
25	9.8	≤10.4	53	≥41	55	≥41	46.1	≤ 32.0	35	≥ 22
31.25	11.0	≤11.7	51	≥39	53	≥39	43.5	≤ 29.3	34	≥ 21
62.5	15.9	≤17.0	47	≥35	49	≥35	34.7	≤ 20.1	32	≥ 18
100	20.5	≤22.0	44	≥32	46	≥32	27.6	≤ 12.5	30	≥ 16

* These values are based on worst pair measurements (averaged) from sample population of over 1000 reels.

† Although not specified by EIA/TIA 568A, Lucent Technologies 4-pair cables meet Power Sum NEXT requirement of the backbone specification.

Ordering Information for the 1061C+ Cable

No. of Pairs: 4
Weight: 20.8 lbs/1000 ft (31.0 kg/km)
Insulation thickness: 0.008 inches (0.20 mm)
Jacket thickness: 0.024 inches (0.61 mm)
Outside diameter: 0.210 inches (5.4 mm)

Product Code	Package	Comcode	Product Code	Package	Comcode
1061 004 BBL	W1000	107 251 696	1061 004CIV	W1000	106 871 817
1061 004 BBL	R1000	107 323 636	1061 004CIV	R1000	107 076 192
1061 004 BGN	W1000	108 189 663	1061 004CIV	CUSTL	107 257 289
1061 004 BGN	R1000	108 189 671	1061 004CYL	W1000	107 001 687
1061 004 BOR	W1000	108 173 840	1061 004CYL	R1000	106 999 071
1061 004 BOR	R4000	108 179 359	1061 004CYL	CUSTL	107 388 035
1061 004 BSL	R1000	106 657 653	1061 004CRD	W1000	106 926 363
1061 004 BSL	W1000	107 091 936	1061 004CRD	R1000	107 244 055
1061 004 BRE	R1000	108 189 689	1061 004CBR	CUSTL	107 288 227
1061 004 BRE	W1000	108 189 697	1061 004CBR	R1000	107 328 858
1061 004 BWH	W1000	107 819 575	1061 004CWH	W1000	107 147 787
1061 004 BWH	R4000	108 179 367	1061 004CWH	CUSTL	107 288 235
1061 004CSL	R1000	106 836 943	1061 004CLL	R1000	107 244 022
1061 004CSL	R5000	107 014 078	1061 004CLL	W1000	107 244 030
1061 004CSL	W1000	106 836 950	1061 004CGN	R1000	107 244 048
1061 004CSL	R4000	106 836 968	1061 004COR	R1000	107 193 435
1061 004CSL	CUSTL	106 836 976			
1061 004CBL	W1000	106 871 809	25-Pair		
1061 004CBL	R1000	107 057 853	1061 025CSL	R1000	107 287 484
1061 004CBL	CUSTL	107 288 243	1061 025CSL	R4000	107 479 313

CUSTL = Custom Length Per Customer Order (0% + 10%)

R = Reel

W = WE TOTE® Dispenser

Ordering Information for the 2061B+ Cable

No. of Pairs:	4
Weight:	21.6 lbs/1000 ft (32.2 kg/km)
Insulation thickness:	0.007 inches (0.16 mm) Average
Jacket thickness:	0.020 inches (0.51 mm)
Outside diameter:	0.210 inches (5.4 mm)

Product Code	Package	Comcode
2061 004BWH	W1000	106 939 325
2061 004BWH	R1000	106 939 317
2061 004BWH	CUSTL	106 946 833
2061 004BWH	R5000	107 014 052
2061 004BWH	T1000	108 079 401
2061 004BWH	R3000	108 077 850
2061 004BBL	W1000	108 946 825
2061 004BBL	R1000	106 946 809
2061 004BBL	CUSTL	106 946 817
2061 004BBL	T1000	108 079 369
2061 004BBL	R3000	108 077 827
2061 004BYL	W1000	106 965 379
2061 004BYL	R1000	106 965 387
2061 004BYL	CUSTL	106 965 395
2061 004BYL	T1000	108 077 868
2061 004BRE	W1000	107 261 711
2061 004BRE	R1000	107 261 703
2061 004BGN	W1000	107 272 809
2061 004BGN	R1000	107 272 841
2061 004BLL	W1000	107 273 278
2061 004BLL	R1000	107 273 286
2061 004BOR	CUSTL	107 078 891
2061 004BOR	R1000	106 974 348
2061 004BOR	W1000	108 052 879
2061 004BOR	T1000	108 077 835
2061 004BSL	R1000	107 193 468
2061 004BBK	T1000	108 077 819
2061 004BBK	R1000	107 383 705
2061 004BBK	W1000	107 509 036
2061 004BBK	CUSTL	108 052 887
25-Pair		
2061 025AWH	R1000	107 369 845
2061 025AWH	RVAR	107 369 852
2061 025ABL	R1000	107 871 477
2061 025AGN	R1000	107 871 485

CUSTL = Custom Length Per Customer Order (0% + 10%)

R = Reel

W = WE TOTE Dispenser

T = REEL-TOTE Dispenser

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¹IEEE is an abbreviation for The Institute of Electrical and Electronic Engineers

²ASTM is an abbreviation for American Society for Testing Materials

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