

# SYSTIMAX®

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## SOLUTIONS

## SYSTIMAX® 61 Series 4-Pair PowerSUM Cable

### SYSTIMAX® SCS Component

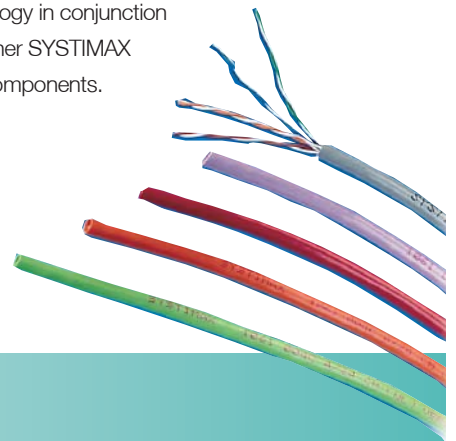
#### The High-Speed 100 ohm High Performance PowerSUM Cable

The SYSTIMAX® 61 Series 4-Pair Cable is composed of 0.511 mm (24-AWG) bare solid-copper conductors insulated in high density polyolefin. The insulated conductors are tightly twisted into pairs and jacketed with SYSTIMAX SCS specially formulated PVC, Low Smoke Zero Halogen or Plenum Material. The 61 Series 4-Pair Cable is a high-speed, 100 ohm high performance cable with excellent pair-to-pair NEXT levels.

The 1061 cable has excellent pair-to-pair NEXT levels. It provides excellent high-speed transmission, is specified out to 550 MHz and supports applications such as 155 Mb/s ATM, 622 Mb/s ATM and the IEEE 802.3 1000BASE-T (Gigabit Ethernet) standard, using parallel transmission scheme technology in conjunction with other SYSTIMAX SCS components.

The 2061B 4-Pair Cable is composed of 24-AWG (0.5 mm) bare solid-copper conductors insulated with Fluorinated-Ethylene-Propylene (FEP). The core of twisted pairs is jacketed with a low-smoke PVC. It conforms to the low-flame, low-smoke requirements of the NEC. The 2061B 4-Pair is a high-speed, 100 ohm high performance cable with excellent PSNEXT levels which ensures that multiple identical or

compatible signals can be shared in the same cable without loss of data integrity. 2061B Cables provides excellent high-speed transmission, is specified out to 550 MHz and supports applications such as 155 Mb/s ATM, 622 Mb/s ATM and the proposed IEEE 802.3 1000BASE-T (Gigabit Ethernet) Standard, using parallel transmission scheme technology in conjunction with other SYSTIMAX SCS components.



#### Features and Benefits

- Available in Low Smoke Zero Halogen and Plenum
- Variety of colors available
- The 4-Pair Cable meets or exceeds the Category 5 and Category 5e requirements in ISO/IEC 11801 (2002), EN50173-1 (2002) and TIA-568B.

The 3061A is a Low Smoke Zero Halogen (LSZH) 4-Pair Cable. It is composed of 0.511mm (24-AWG) bare solid-copper conductors insulated with high density polyethylene non-halogen compound. The insulated conductors are tightly twisted into pairs and jacketed with the low smoke non-halogen compound.

The 3061A LSZH Cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 754 part 2, Non-halogen based on pH and Conductivity Measures
- IEC 1034 part 2, Smoke emission
- IEC 332 part 3, Flammability and Fire retardant
- NES 713: Toxicity index

The 1061 PVC; 2061 Plenum and 3061A LSZH 4-Pair Cable meets or exceeds the Category 5 and Category 5e requirements in ISO/IEC 11801 (2002), EN50173-1 (2002) and TIA/EIA 568B. While the 1061 Cable is also UK listed CM (C+version) or UL Listed CMR and CSA Type FT4 (B+ version). The 2061 Cables are UL Listed CMP AND are listed in the Approved Fire and Security Products and Services list of the Loss Prevention Certification Board (UK).

**Typical Margin to Category 5e Specifications**

	61 Series Cable Typical Worst Pair Margin*
Pr-Pr NEXT	4.0 dB
PS NEXT	6.0 dB
Insertion Loss	5%
PSELFEXT	9.0 dB
Return Loss	4.0 dB
Freq Range	1 to 350 MHz

\* Typical margin represents worst pair min. average

Physical Specifications	
<b>Gauge:</b>	24 AWG
<b>Weight:</b>	1061 31kg/km (68.34 lb/1,000 ft) 2061 28.6kg/km (63.05 lb/1,000 ft) 3061 34.96kg/km (77.07 lb/1,000 ft)
<b>Outside Diameter:</b>	1061 - 5.4 mm (0.21 in) 2061 - 5.1 mm (0.2 in) 3061 - 5.3 mm (0.208 in)
<b>Insulation Thickness:</b>	0.16 mm (0.006 in)
<b>Jacket Thickness:</b>	0.51 mm (0.02 in)
<b>Max. Pulling Tension:</b>	41kg (90.38 lb)
<b>Operating Temperature Range:</b>	-20 to 60°C

Electrical Specifications	
<b>Nom. velocity of prop:</b>	1061 0.69; 2061 0.73; 3061 0.67
<b>Max. DC Resistance:</b>	9.38 ohms/100 m/328.08 ft)
<b>Max. DC Resistance Unbal.:</b>	5% Mut. Capacitance@ 1 kHz: 46 pF/m
<b>Max. Capacitance Unbal. (pair to ground):</b>	131.2 pF/100 m/(328.08 ft)

Product	Material ID	Length	Packaging	Color
<b>1061 "C+" Version - UL Type CM</b>				
1061004CSL	106 836 950	305 m (1000 ft)	WE TOTE Box	Slate Gray
1061004CSL R1000	106 836 943	305 m (1000 ft)	Reel	Slate Gray
1061004CSL	106 836 968	1340 m (4400 ft)	Reel	Slate Gray
1061004CBK	107 509 051	305 m (1000 ft)	WE TOTE Box	Black
1061004CLB R1000	107 057 853	305 m (1000 ft)	Reel	Light Blue
1061004CBL	106 871 809	305 m (1000 ft)	WE TOTE Box	Blue
1061004CBR	107 328 858	305 m (1000 ft)	Reel	Brown
1061004CGN R1000	107 244 048	305 m (1000 ft)	Reel	Green
1061004CGN	107 244 030	305 m (1000 ft)	WE TOTE Box	Green
1061004CIV R1000	107 076 192	305 m (1000 ft)	Reel	Ivory
1061004CIV	106 871 817	305 m (1000 ft)	WE TOTE Box	Ivory
1061004CIV CUSTL	107 257 289	Custom Lengths		Ivory
1061004CLL R1000	107 244 014	305 m (1000 ft)	Reel	Lilac
1061004CLL	107 244 022	305 m (1000 ft)	WE TOTE Box	Lilac
1061004COR	107 193 435	305 m (1000 ft)	Reel	Orange
1061004CRD R1000	107 244 055	305 m (1000 ft)	Reel	Red
1061004CRD	106 926 363	305 m (1000 ft)	WE TOTE Box	Red
1061004CWH R1000	107 849 283	305 m (1000 ft)	Reel	White
1061004CWH	107 147 787	305 m (1000 ft)	WE TOTE Box	White
1061004CYL R1000	106 999 071	305 m (1000 ft)	Reel	Yellow
1061004CYL	107 001 687	305 m (1000 ft)	WE TOTE Box	Yellow
<b>1061 "B+" Version - UL Type CMR, CSA Type FT4</b>				
1061004BBL W1000	107 251 696	305 m (1000 ft)	WE TOTE	Blue
1061004BBL R1000	107 323 636	305 m (1000 ft)	Reel	Blue
1061004BSL W1000	107 091 936	305 m (1000 ft)	WE TOTE	Slate Gray
1061004BWH W1000	107 819 575	305 m (1000 ft)	WE TOTE	White
1061004BOR W1000	108 173 840	305 m (1000 ft)	WE TOTE	Orange

Product	Material ID	Length	Packaging	Color
<b>2061 "B" Version - UL Type CMR, CSA Type FT4</b>				
2061004BWH	106 939 317	305 m (1000 ft)	Reel	White
2061004BWH	106 939 325	305 m (1000 ft)	WE TOTE	White
2061004BWH T1000	108 079 401	305 m (1000 ft)	REEL TOTE	White
2061004BWH CUSTL	106 946 833		Custom Length	White
2061004BBL R1000	106 946 809	305 m (1000 ft)	Reel	Blue
2061004BBL T1000	108 079 369	305 m (1000 ft)	REEL TOTE	Blue
2061004BBL W1000	106 946 825	305 m (1000 ft)	WE TOTE	Blue
2061004BBL CUSTL	106 946 817		Custom Length	Blue
2061004BOR R1000	106 974 348	305 m (1000 ft)	Reel	Orange
2061004BOR T1000	108 077 835	305 m (1000 ft)	REEL TOTE	Orange
2061004BOR W1000	108 077 835	305 m (1000 ft)	WE TOTE	Orange
2061004BOR CUSTL	107 078 891		Custom Length	Orange
2061004BGN R1000	107 272 841	305 m (1000 ft)	Reel	Spring Green
2061004BGN W1000	107 272 809	305 m (1000 ft)	WE TOTE	Spring Green
2061004BLL R1000	107 273 286	305 m (1000 ft)	Reel	Lilac
2061004BLL W1000	107 273 278	305 m (1000 ft)	WE TOTE	Lilac
2061004BBK R1000	107 383 705	305 m (1000 ft)	Reel	Black
2061004BBK W1000	107 509 036	305 m (1000 ft)	WE TOTE	Black
2061004BYL R1000	106 965 387	305 m (1000 ft)	Reel	Yellow
2061004BYL T1000	108 077 868	305 m (1000 ft)	REEL TOTE	Yellow
2061004BYL W1000	106 965 379	305 m (1000 ft)	WE TOTE	Yellow
2061004BYL CUSTL	106 965 395		Custom Length	Yellow
2061004BSL W1000	107 078 891	305 m (1000 ft)	WE TOTE	Slate
2061004BSL R1000	107 193 468	305 m (1000 ft)	Reel	Slate
<b>3061 "A" Version - UL Type CMR, CSA Type FT4</b>				
3061A-004	107 573 537	305 m (1000 ft)	Reel	White
3061A-004	107 573 545	305 m (1000 ft)	WE TOTE Box	White
3061A-004	107 860 538	1340 m (4400 ft)	Reel	White

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