

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 a high-speed, 100 ohm high performance cable with excellent NEXT levels. SYSTIMAX 61 series cables provide excellent high-speed transmission and support 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 1061 4-pair cable meets or exceeds Category 5e/Class D specifications in ISO/IEC 11801, CENELEC EN50173, and TIA/EIA 568B.2. Further, these cables are UL verified as Category 5e.

The 1061C 4-pair cable is composed of 24 AWG solid copper conductors, insulated with high-density polyolefin. The insulated conductors are twisted into pairs and jacketed with our specially formulated material. 1061C cable is UL and cUL CM rated.

The 1061B 4-pair cable is composed of 24 AWG solid copper conductors with high-density polyolefin insulation and jacketed with low-smoke polyvinyl chloride (PVC). 1061B cable is UL

and cUL CMR rated.

The 2061F 4-pair cable is composed of 24 AWG solid-copper conductors insulated with Foam Fluorinated-Ethylene-Propylene (FEP), and it is lighter and smaller than the 2061B cable. The core of twisted pairs is jacketed with a low-smoke PVC. 2061F cable is UL and cUL CMP rated.



Features and Benefits

- Available in Non-Plenum, Low Smoke Zero Halogen and Plenum safety ratings
- Variety of colors available
- Meets or exceeds the Category 5 and Category 5e requirements in ISO/IEC 11801 (2002), EN50173-1 (2002) and TIA-568B.
- Supports an operating voltage of 72 V d.c. between any conductors throughout the operating temperature range.

The 3061A is a Low Smoke Zero Halogen (LSZH) 4-pair Cable. It is composed of 24-AWG solidcopper 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

SYSTIMAX PowerSUM Category 5e Guaranteed Channel Performance

Electrical Parameter Guaranteed Channel Margins to Category 5E/Class D (1 - 155.5 MHz) TIA 568B.2 and ISO 11801 Edition 2.0

Insertion Loss	5.0%
NEXT	3.0 dB
PS NEXT	5.5 dB
ELFEXT	4.5 dB
PSELFEXT	5.5 dB
Return Loss	1.0 dB

Note: All values apply to worst-case channels utilizing 4-pair 61 series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for any channel lengths up to 100 meters.

Physical Specifications

Gauge:	24 AWG
Weight:	1061B - 31.3 kg/km (21.0 lb/1,000 ft) 1061C - 30.7 kg/km (20.6 lb/1,000 ft) 2061 - 29.8 kg/km (20.0 lb/1,000 ft) 3061 - 29.8 kg/km (20.0 lb/1,000 ft)
Nominal Outside Diameter:	1061B - 4.95 mm (0.195 in) 1061C - 5.08 mm (0.200 in) 2061 - 4.57 mm (0.180 in) 3061 - 4.95 mm (0.195 in)
Nominal Jacket Thickness:	1061B - 0.51 mm (0.020 in) 1061C - 0.56 mm (0.022 in) 2061 - 0.48 mm (0.019 in) 3061 - 0.53 mm (0.021 in)
Max. Pulling Tension:	11.34kg (25 lb)
Operating Temperature Range:	-200C to 600C (-4F to 140F)

Electrical Specifications

Nom. Velocity of Prop:	1061 / 3061 - 0.70 2061F - 0.74 (FEP), 0.71 (PE)
Max. DC Resistance:	9.38 ohms/100 m (328.08 ft)
Max. DC Resistance Unbal.:	3%
Max. Capacitance @ 1 kHz:	5.6 nF/100 m

Ordering Information

Material ID	Product	Length	Color	Packaging
PowerSUM 61B Series Non-Plenum				
107323636	1061 004BBL 4/23 R1000	305 m (1000 ft)	Blue	Reel
107251696	1061 004BBL 4/23 W1000	305 m (1000 ft)	Blue	We Tote Box
108173840	1061 004BOR 4/23 W1000	305 m (1000 ft)	Orange	We Tote Box
700022643	1061 004BRD 4/23 W1000	305 m (1000 ft)	Red	We Tote Box
107091936	1061 004BSL 4/23 W1000	305 m (1000 ft)	Slate	We Tote Box
107819575	1061 004BWH 4/23 W1000	305 m (1000 ft)	White	We Tote Box
PowerSUM 61C Series Non-Plenum				
107509051	1061 004CBK 4/23 W1000	305 m (1000 ft)	Black	We Tote Box
760004705	1061 004CBL 4/23 R1000	305 m (1000 ft)	Blue	Reel
760004671	1061 004CBL 4/23 W1000	305 m (1000 ft)	Blue	We Tote Box
107244048	1061 004CGN 4/23 R1000	305 m (1000 ft)	Spring Green	Reel
107244030	1061 004CGN 4/23 W1000	305 m (1000 ft)	Spring Green	We Tote Box
107076192	1061 004CIV 4/23 R1000	305 m (1000 ft)	Ivory	Reel
106871817	1061 004CIV 4/23 W1000	305 m (1000 ft)	Ivory	We Tote Box
107057853	1061 004CLB 4/23 R1000	305 m (1000 ft)	Light Blue	Reel
106871809	1061 004CLB 4/23 W1000	305 m (1000 ft)	Light Blue	We Tote Box
107244022	1061 004CLL 4/23 W1000	305 m (1000 ft)	Lilac	We Tote Box
107193435	1061 004COR 4/23 R1000	305 m (1000 ft)	Orange	Reel
700156177	1061 004COR 4/23 W1000	305 m (1000 ft)	Orange	We Tote Box
107244055	1061 004CRD 4/23 R1000	305 m (1000 ft)	Red	Reel
106926363	1061 004CRD 4/23 W1000	305 m (1000 ft)	Red	We Tote Box
106836943	1061 004CSL 4/23 R1000	305 m (1000 ft)	Slate	Reel
106836950	1061 004CSL 4/23 W1000	305 m (1000 ft)	Slate	We Tote Box
107849283	1061 004CWH 4/23 R1000	305 m (1000 ft)	White	Reel
107147787	1061 004CWH 4/23 W1000	305 m (1000 ft)	White	We Tote Box
106999071	1061 004CYL 4/23 R1000	305 m (1000 ft)	Yellow	Reel
107001687	1061 004CYL 4/23 W1000	305 m (1000 ft)	Yellow	We Tote Box
PowerSUM 61 Series Plenum				
760051615	2061 004FBK 4/23 W1000	305 m (1000 ft)	Black	We Tote Box
760049585	2061 004FBL 4/23 R1000	305 m (1000 ft)	Blue	Reel
760049643	2061 004FBL 4/23 R3000	914 m (3000 ft)	Blue	Reel
760041913	2061 004FBL 4/23 W1000	305 m (1000 ft)	Blue	We Tote Box
760049635	2061 004FGN 4/23 R1000	305 m (1000 ft)	Spring Green	Reel
760049692	2061 004FGN 4/23 R3000	914 m (3000 ft)	Spring Green	Reel



Ordering Information

Material ID	Product	Length	Color	Packaging
760049700	2061 004FGN 4/23 W1000	305 m (1000 ft)	Spring Green	We Tote Box
760051631	2061 004FLL 4/23 W1000	305 m (1000 ft)	Lilac	We Tote Box
760049627	2061 004FOR 4/23 R1000	305 m (1000 ft)	Orange	Reel
760049684	2061 004FOR 4/23 R3000	914 m (3000 ft)	Orange	Reel
760041954	2061 004FOR 4/23 W1000	305 m (1000 ft)	Orange	We Tote Box
760066068	2061 004FPK 4/23 W1000	305 m (1000 ft)	Pink	We Tote Box
760058735	2061 004FPR 4/23 R1000	305 m (1000 ft)	Purple	Reel
760051623	2061 004FRD 4/23 W1000	305 m (1000 ft)	Red	We Tote Box
760049601	2061 004FSL 4/23 R1000	305 m (1000 ft)	Slate	Reel
760049668	2061 004FSL 4/23 R3000	914 m (3000 ft)	Slate	Reel
760041939	2061 004FSL 4/23 W1000	305 m (1000 ft)	Slate	We Tote Box
760049593	2061 004FWH 4/23 R1000	305 m (1000 ft)	White	Reel
760049650	2061 004FWH 4/23 R3000	914 m (3000 ft)	White	Reel
760041921	2061 004FWH 4/23 W1000	305 m (1000 ft)	White	We Tote Box
760049619	2061 004FYL 4/23 R1000	305 m (1000 ft)	Yellow	Reel
760049676	2061 004FYL 4/23 R3000	914 m (3000 ft)	Yellow	Reel
760041947	2061 004FYL 4/23 W1000	305 m (1000 ft)	Yellow	We Tote Box
PowerSUM 61 Series LSZH				
107573537	3061 004AWH 4/23 R1000	305 m (1000 ft)	White	Reel
107573545	3061 004AWH 4/23 W1000	305 m (1000 ft)	White	We Tote Box
107860538	3061 004AWH 4/23 R4400	1340 m (4400 ft)	White	Reel

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