

SYSTIMAX[®]

SOLUTIONS

SYSTIMAX[®] 71E Series GigaSPEED[®] XL Cable

Designed by SYSTIMAX[®] Labs to provide reliable high-performance connectivity

The SYSTIMAX 71E series GigaSPEED[®] XL cable transmits reliable voice, data and video, with excellent quality of service.

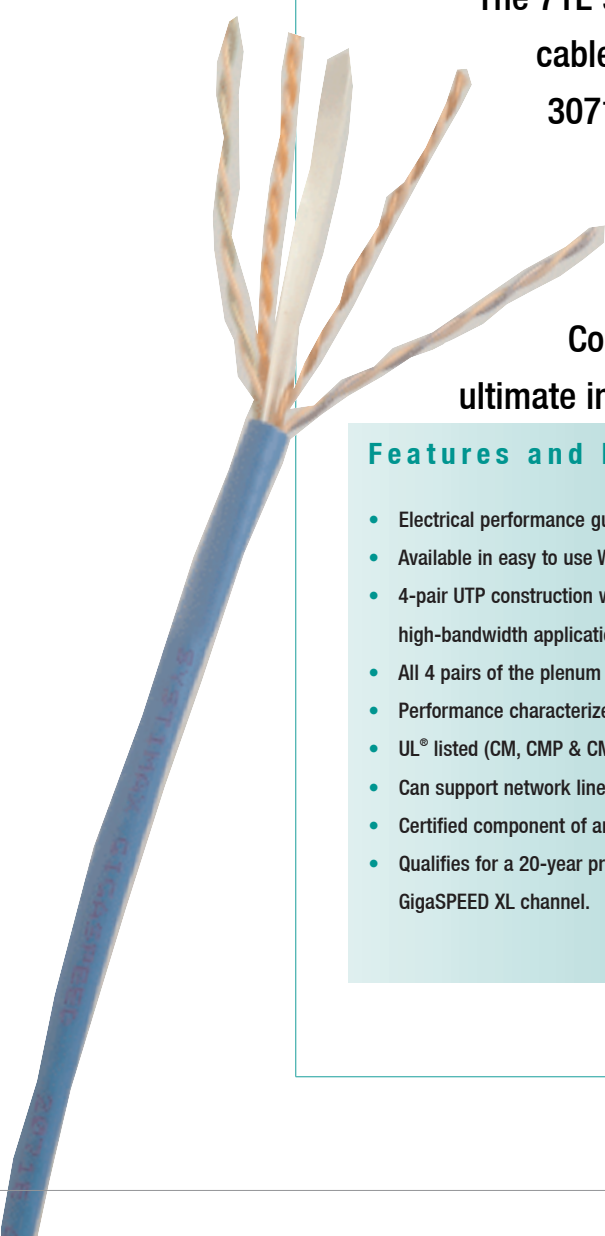
The 71E series GigaSPEED XL family of unshielded twisted pair cables includes the 1071E non-plenum, 2071E plenum, and 3071E low smoke zero-halogen (LSZH) cables. These cables feature a patent-pending bi-sector tape that delivers the performance benefits of more traditional fluted center members, without the associated stiffness and size.

Combine this with the new GigaSPEED XL apparatus, for the ultimate in cabling system performance.

Features and Benefits

- Electrical performance guaranteed to meet or exceed TIA/EIA 568-B.2-1 Category 6 and ISO./IEC Category 6/Class E specifications
- Available in easy to use WE TOTE[®] or open reel packaging. Custom lengths are also orderable
- 4-pair UTP construction with patent-pending bi-sector separator tape provides the added performance margin required to support high-bandwidth applications at an economical price.
- All 4 pairs of the plenum rated 2071E version fully FEP insulated for superior performance and safety.
- Performance characterized to 550 MHz to support high-bandwidth video applications.
- UL[®] listed (CM, CMP & CMR) and CSA(type FT4) certified. ACA approved.
- Can support network line speeds in excess of 1 gigabit per second.
- Certified component of an integrated GigaSPEED XL Solution.
- Qualifies for a 20-year product and applications assurance warranty when included as part of a certified SYSTIMAX GigaSPEED XL channel.

SYSTIMAX[®] Structured Connectivity Solutions



Performance Specifications

	71E Cable	XL7	XL8
		Solution	Solution
		GigaSPEED Channel (4 Connectors)	
	Typical Worst Pair Margin*	Guaranteed Margin**	Guaranteed Margin**
Insertion Loss	3.0%	5.0%	7.5%
NEXT	6.0 dB	6.0 dB	7.0 dB
PSNEXT	6.0 dB	7.5 dB	8.5 dB
ELFEXT	5.0 dB	6.0 dB	8.0 dB
PSELFEXT	5.0 dB	8.0 dB	10.0 dB
Return Loss	4.0 dB	4.0 dB	4.0 dB
Frequency Range	1-550 MHz	1-250 MHz	1-250 MHz

* Typical worst pair swept margin.

**Guaranteed margin is valid at any frequency from 1-250 MHz for a SYSTIMAX certified channel comprising GigaSPEED XL apparatus and 71E series cable (GigaSPEED XL7 Solution) or 81A series cable (GigaSPEED XL8 Solution). Values represent margin over the draft Category 6/Class E channel specifications.

Physical Specifications

Dimensions	(Width x Height x Depth)
Weight:	1071E: 25.3lb (11.5kg) 2071E: 29lb (13.2kg) 3071E: 22.8 lb (10.4 kg)
Jacket Thickness:	1071E: 0.022 in (0.55mm) 2071E: 0.020 in (0.50 mm) 3071E: 0.020 in (0.50 mm)
Outside Diameter:	1071E: 0.232 in (5.8mm) 2071E: 0.22 in (5.6mm) 3071E: 0.23 in (5.8mm)
Conductor Diameter:	0.022 in (0.55 mm)
Insulation Type:	1071E: High-density Polyethylene 2071E: Fluorinated-Ethylene-Propylene 3071E: Non-halogen high-density Polyethylene
Jacket Material:	1071E: PVC 2071E: Low Smoke PVC 3071E: Low smoke zero halogen compound
Maximum Pulling Tension:	25 lbs.
Nom. Velocity of Propagation NVP:	1071: 0.69 2071E: 0.72 3071E: 0.69
Max DC Resistance:	9.83 Ohms/100m
Mutual Capacitance @ 1kHz:	1071E: 4.95 nF/100m 2071E: 4.78 nF/100m 3071E: 4.95 nF/100m
Operating Temperature:	-20 to 60° C
UL Type:	1071E: CMR & CMG 2071E: CMP
LSZH (3071E) Compliant with the Following Tests:	IEC 754 Part 2, IEC 1034 Part 2, IEC 332 Part 1, NES 713.

Ordering Information

Non-Plenum	Color	Quantity	Material ID	Plenum	Color	Quantity	Material ID
1071 004E OR	Orange	W1000	700 212 111	2071 004E OR	Orange	W1000	700 210 024
1071 004E OR	Orange	R1000	700 212 103	2071 004E OR	Orange	R1000	700 210 008
1071 004E LB	Lt Blue	W1000	700 211 964	2071 004E OR	Orange	CUSTL	700 210 016
1071 004E LB	Lt Blue	R1000	700 211 956	2071 004E WH	White	W1000	700 208 101
1071 004E LB	Lt Blue	CUSTL	700 211 972	2071 004E WH	White	R1000	700 210 032
2071 004E WH	White	CUSTL	700 210 065	2071 004E WH	White	R3000	700 210 057
1071 004E GR	Green	W1000	700 212 061	2071 004E WH	White	R4750**	700 210 040
1071 004E GR	Green	R1000	700 212 053	2071 004E BL	Blue	W1000	700 208 093
1071 004E GR	Green	CUSTL	700 212 079	2071 004E BL	Blue	R1000	700 210 081
1071 004E SL	Slate	W1000	700 211 931	2071 004E BL	Blue	CUSTL	700 210 107
1071 004E SL	Slate	R1000	700 211 923	2071 0040E BL	Blue	R3000	700 210 099
1071 004E SL	Slate	CUSTL	700 211 949	2071 004E YL	Yellow	W1000	700 210 123
1071 004E LL	Lilac	W1000	700 212 095	2071 004E YL	Yellow	R1000	700 210 131
1071 004E LL	Lilac	R1000	700 212 087	2071 004E YL	Yellow	CUSTL	700 210 149
1071 004E BK	Black	W1000	700 212 129	2071 004E GR	Green	W1000	700 210 164
1071 004E RD	Red	W1000	700 212 020	2071 004E GR	Green	R1000	700 210 156
1071 004E RD	Red	R1000	700 212 012	2071 004E GR	Green	CUSTL	700 210 172
1071 004E RD	Red	CUSTL	700 212 038	2071 004E GR	Green	R4750**	700 210 180
1071 004E YL	Yellow	W1000	700 211 998	2071 004E SL	Slate	W1000	700 214 372
1071 004E YL	Yellow	R1000	700 212 980	2071 004E SL	Slate	R1000	700 210 198
1071 004E YL	Yellow	CUSTL	700 212 004	2071 004E LL	Lilac	W1000	700 210 214
1071 004E WH	White	W1000	700 212 046	2071 004E LL	Lilac	R1000	700 210 206
1071 004E WH	White	R1000	700 212 208	2071 004E BK	Black	W1000	700 210 230
1071 004E WH	White	CUSTL	700 212 257	2071 004E BK	Black	R1000	700 210 222
1071 004E1 SL*	Slate	R1000*	700 214 216	2071 004E RD	Red	W1000	700 210 263
1071 004E1 SL*	Slate	W1000*	700 214 224	1071 004E1 LB	Lt Blue	R4400*	700 214 554
1071 004E1 SL*	Slate	CUSTL*	700 214 232	1071 004E1 LB*	Lt Blue	R4000*	700 214 547
1071 004E1 LB*	Lt Blue	W1000*	700 214 240				

Non-Halogen	Color	Quantity	Material ID
3071 004E BL	Blue	W1000	700 216 492
3071 004E WH	White	W1000	700 216 450
3071 004E WH	White	R4400	700 216 476

Note: Non-Halogen available only in Europe. W=WE TOTE Box, R=Reel, CUSTL=Custom Length, T=Reel in a box, *=Austel Certified (Available only in Australia and New Zealand), **=length +10% -0%,

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SOLUTIONS

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