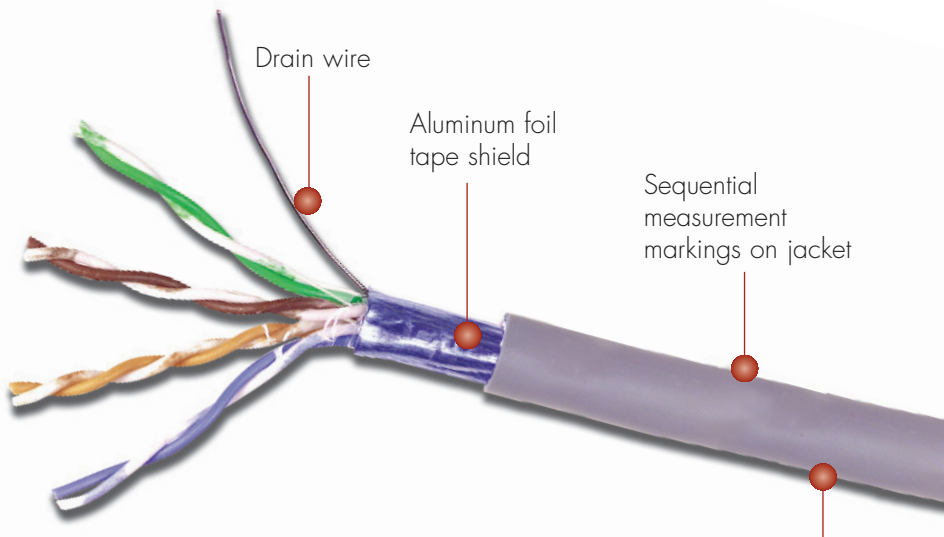


# PREMIUM 5e® F/UTP CABLE

Siemon screened category 5e cable perfectly complements the performance of our screened 5e outlets. Siemon cable exceeds all TIA/EIA and ISO/IEC requirements for category 5e/class D transmission performance. Utilizing Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted system.



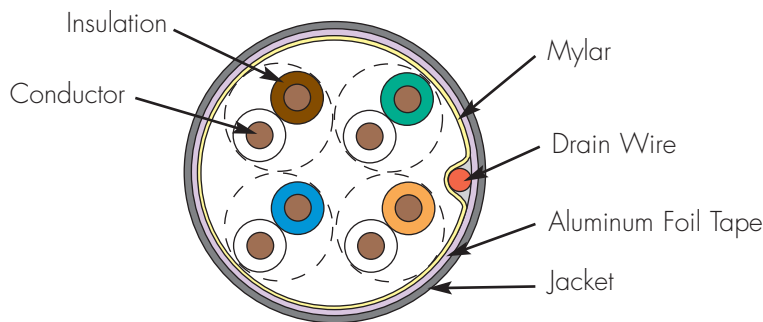
CABLE — INTERNATIONAL



## Cable Construction

- ScTP (F/UTP)
- 0.5mm (0.02 in.) (24 AWG) solid bare copper
- 7.4mm (0.29 in.) max jacket diameter
- 1.0mm (0.04 in.) max conductor insulation diameter
- Shield is an aluminum foil tape enclosing a 24 AWG tinned copper drain wire

LSOH, CMX and CMR jacket options available



*Cable packaged in a reel-in-a-box (305m) to protect product during shipping and facilitate tangle-free installation*

## Compliance

- ISO/IEC 11801:2002 (category 5e)
- ANSI/TIA/EIA-568-B.2
- IEC 61156-5:2002 (Category 5e)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034
- UL CMX
- UL CMR and CSA FT4

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# PRODUCT INFORMATION

## ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m.
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 250 MHz: 100 ± 22%
NVP	69%
LCL	40-10 x log(f)dB
Delay Skew	≤ 40ns



## PHYSICAL PROPERTIES

	LSOH	CMR/CMX
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	25mm (1 in.)	25mm (1 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)	-36 to 60°C (-32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)	-34 to 75°C (-30 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-34 to 60°C (-30 to 140°F)

## TRANSMISSION PERFORMANCE

■ TIA/EIA & ISO/IEC

□ SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
	2.1	1.9	65.3	79.3	62.3	72.3	63.2	77.4	60.2	70.4	63.8	84.8	60.8	78.8	20.0	27.0	570	545
1.0	2.1	1.9	65.3	79.3	62.3	72.3	63.2	77.4	60.2	70.4	63.8	84.8	60.8	78.8	20.0	27.0	570	545
4.0	4.1	3.7	56.3	70.3	53.3	63.3	52.2	66.6	49.2	59.6	51.8	72.8	48.8	66.8	23.0	32.0	552	527
10.0	6.5	5.8	50.3	64.3	47.3	57.3	43.8	58.5	40.8	51.5	43.8	64.8	40.8	58.8	25.0	32.0	545	520
16.0	8.3	7.4	47.2	61.2	44.2	54.2	39.0	53.8	36.0	46.8	39.7	60.7	36.7	54.7	25.0	32.0	543	518
20.0	9.3	8.3	45.8	59.8	42.8	52.8	36.5	51.5	33.5	44.5	37.8	58.8	34.8	52.8	25.0	32.0	542	517
31.25	11.7	10.5	42.9	56.9	39.9	49.9	31.1	46.4	28.1	39.4	33.9	54.9	30.9	48.9	23.6	30.0	540	515
62.5	17.0	15.0	38.4	52.4	35.4	45.4	21.4	37.4	18.4	30.4	27.9	48.9	24.9	42.9	21.5	30.0	539	514
100.0	22.0	19.3	35.3	49.3	32.3	42.3	13.3	30.0	10.3	23.0	23.8	44.8	20.8	38.8	20.1	30.0	538	513
160.0*	28.6	25.1	32.2	46.2	29.2	39.2	3.7	21.1	0.7	14.1	19.7	40.7	16.7	34.7	18.7	28.0	537	512
200.0*	32.4	28.1	30.8	44.8	27.8	37.8	-1.6	16.7	-4.6	9.7	17.8	38.8	14.8	32.8	18.0	27.0	536	512
250.0*	36.9	31.4	29.3	43.3	26.3	36.3	-7.5	11.9	-10.5	4.9	15.8	36.8	12.8	30.8	17.3	26.0	536	511
300.0*	41.0	34.5	28.1	42.1	25.1	35.1	-12.8	7.6	-15.8	0.6	14.3	35.3	11.3	29.3	16.8	25.0	536	511
350.0*	44.9	39.4	27.1	41.1	24.1	34.1	-17.7	1.7	-20.7	-5.3	12.9	33.9	9.9	27.9	16.3	24.0	536	511

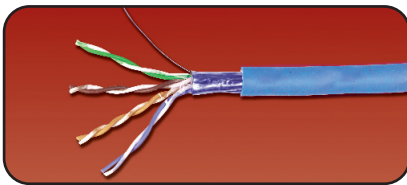
\*Values above 100 MHz are informational only.

All performance based on 100 meters (328 ft.).

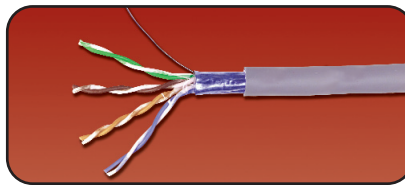
## Premium 5e® F/UTP 4-Pair Solid Cable:

- 9A5R4-E2 .....PVC (CMR, CSA FT4), Blue Jacket, 305m (1000 ft.) Reel-in-Box
- 9A5X4-E2 .....PVC (CMX, IEC 60332-1), Gray Jacket, 305m (1000 ft.) Reel-in-Box
- 9A5L4-E2 .....LSOH (IEC 60332-1), Violet Jacket, 305m (1000 ft.) Reel-in-Box

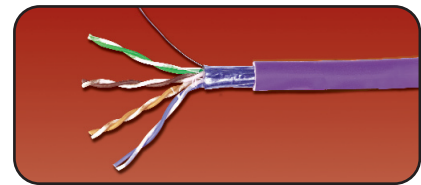
Other cable lengths also available: Add "-5CR" for 500m (1640 ft.) Reel, "-1KR" for 1000m (3,281 ft.) Reel



9A5R4-E2



9A5X4-E2



9A5L4-E2

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice. Premium 5e®, MAX®, MC®, TERA® and BladePatch® are a trademark of Siemon

**For related product information request Spec Sheet(s):**  
 Screened MAX® 5e Modules (PROD-SS-MX5S)  
 Screened MC® 5e & 6 Modular Patch Cords (PROD-SS-MCS)  
 Screened BladePatch® 5e (PROD-SS-BDP5eS)  
 TERA Patch Panel (PROD-SS-TRAPP)

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