

PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1530 Shields Drive Waukegan, IL 60085 Toll-Free: (800) 323-9355 Fax: (847) 689-1192

PART NUMBER: 199995 CAT 6 250 CMR Pg.1 of 3

DESCRIPTION: 4PR 23 AWG UTP CATEGORY 6 250MHz. SOLID BC CONDUCTORS

PREMISE COMMUNICATION CABLE; 75C 300V RISER RATED; CMR

CONSTRUCTION: 23 AWG SOLID BARE COPPER; 4 UNSHIELDED TWISTED PAIRS

INSULATION: HIGH DENSITY POLYETHYLENE (0.0394" Nom. Diameter over Insulation)

COLOR CODE: BLUE & WHITE/BLUE STRIPE; ORANGE & WHITE/ORANGE STRIPE;

GREEN & WHITE/GREEN STRIPE; BROWN & WHITE/BROWN STRIPE

SHIELD/DRAIN: UNSHIELDED (UTP)

ASSEMBLY: 4 PAIRS INDIVIDUALLY TWISTED, CABLED; UNSHIELDED; AND JACKETED

JACKET: PVC

DIAMETER: 0.213" Nominal

CABLE WT: 24 Lbs/1000 Ft Approx (Net Weight)

PRINT LEGEND: 6R - CAT 6 SOUTHWIRE® TAPPAN™ 199995 (UL E# PLANT ID) 23AWG 4PR UTP

TYPE CMR 75C C(UL)US LISTED SUN RES --- UL VERIFIED TO TIA-568.C.2 CATEGORY 6 RoHS-2 COMPLIANT (Date & Lot Info) (Sequential Footage Marking)

NEC: CMR

FOR PLENUM RATED VERSION GO TO SPEC. NO. 199993

COMPLIANCE: UL 444 CMR by (UL) / NEC ARTICLE 800 / RoHS-2

FLAME TEST: UL 1666

TEMP/VOLTAGE: 75C UL / 300V (Storage: -40C/+75C - Installation: 0C/+50C - Amb. Opr. -20C/+60C)

PRODUCT ELECTRICAL CHARACTERISTICS:

CAPACITANCE: 17 pF/Ft (56 pF/m) Nominal

CAP. UNBALANCE: 3.3 pF/m

VEL OF PROP: 68%

DELAY SKEW: 45 ns/100m Maximum

PROP. DELAY: 545ns/100m Maximum Propagation Delay

IMPEDANCE: 100 OHMS +/- 15%

RESISTANCE: 9.38 OHMS D.C. PER 100m @ 68 DEG. F

Complies with EU Dir. 2011/65/EU (RoHS-2).

The customer will accept all factory lengths and +/- 10 percent of total order requested.

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PRODUCT ELECTRICAL CHARACTERISTICS (Cont.)

Freq.	Atten	uation	NE	XT	AC	CR	PSN	EXT	PS	ACR	AC	RF	PS A	CRF	R	L
(MHz)	(dB/1	00m)	(dB/1	00m)	(dB/1	00m)	(dB/1	00m)	(dB/1	100m)	(dB/1	00m)	(dB/1	00m)	(d	B)
	Std.	Avg.	Std.	Avg.	"Std"	Avg.	Min.	Avg.	"Std"	Avg	Std.	Avg.	Min.	Avg.	Min.	Avg.
1	2	1.9	74.3	82	72.3	80.1	72.3	80	70.3	78.1	67.8	76	64.8	75	20.0	28
4	3.8	3.7	65.1	75	61.3	71.3	63.1	73	59.3	69.3	55.5	64	52.5	63	23.1	34
8	5.3	5.1	60.9	70	55.6	64.9	58.9	68	53.6	62.9	49.9	59	46.9	58	24.5	35
10	6.1	5.9	59.1	69	53.0	63.1	57.1	67	51	61.1	47.5	56	44.5	55	25.0	35
16	7.5	7.4	56.3	67	48.8	59.6	54.3	64	46.8	56.6	43.7	53	40.7	52	25.0	34
20	8.5	8.4	54.7	66	46.2	57.6	52.7	63	44.2	54.6	41.6	51	38.6	50	25.0	35
25	9.6	9.4	53.2	63	43.6	53.6	51.2	61	41.6	51.6	39.7	49	36.7	48	24.3	33
31.25	10.7	10.6	51.8	62	41.1	51.4	49.8	60	39.1	49.4	37.8	48	34.8	47	23.6	32
62.5	15.4	15.2	47.3	58	31.9	42.8	45.3	56	29.9	40.8	31.8	41	28.8	40	21.5	29
100	19.8	19.5	44.3	55	24.5	35.5	42.3	53	22.5	33.5	27.8	37	24.8	36	20.1	28
200	29.0	28.0	39.8	50	10.8	22.0	37.8	48	8.8	20.0	21.8	30	18.8	29	18.0	25
250	32.8	31.6	38.3	48	5.5	16.4	36.3	46	3.5	14.4	19.8	27	16.8	26	17.3	24
300		34.8		47		12.2		45		10.2		25		23		24
400		40.7		42		1.3		40		(0.7)		19		18		23

Std. is a TIA 568C.2 Maximum (also called "Insertion Loss") Attenuation: Lower is better. NEXT: Std. is a TIA 568C.2 Minimum. (Near End Crosstalk) Higher is better. ACR: NEXT minus Attenuation; ("Attenuation to Crosstalk Ratio") Higher is better. Std. is a TIA 568C.2 Minimum. (Power Sum Near End Crosstalk) **PSNEXT**: Higher is better. PSACR: PSNEXT minus Attenuation; ("Attenuation to PSNEXT Ratio") Higher is better. Std. is a TIA 568C.2 Minimum. (Attenuation Crosstalk Ratio at Far End) ACRF: Higher is better. Std. is a TIA 568C.2 Minimum. (Power Sum Atten.' to Crosstalk Ratio) PSACRF: Higher is better. RL: Std. is a TIA 568C.2 Minimum. (Return Loss) Higher is better.

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Pg.3 of 3

COLORS and PACKAGES

Description	Part Number*	Jacket Color	Pkg Type	Pkg Length
CAT 6 250 23/4P Be CMR 1000PB	I99995-2B	Blue	REELEX	1000
CAT 6 250 23/4P Be CMR 1000RB	I99995-2H	Blue	RIBS	1000
CAT 6 250 23/4P We CMR 1000PB	I99995-3B	White	REELEX	1000
CAT 6 250 23/4P We CMR 1000RB	199995-3Н	White	RIBS	1000
CAT 6 250 23/4P Yw CMR 1000PB	I99995-10B	Yellow	REELEX	1000
CAT 6 250 23/4P Yw CMR 1000RB	I99995-10H	Yellow	RIBS	1000
CAT 6 250 23/4P Gy CMR 1000PB	I99995-1B	Gray	REELEX	1000
CAT 6 250 23/4P Gy CMR 1000RB	I99995-1H	Gray	RIBS	1000
CAT 6 250 23/4P 0e CMR 1000PB	I99995-11B	Orange	REELEX	1000
CAT 6 250 23/4P 0e CMR 1000RB	I99995-11H	Orange	RIBS	1000
CAT 6 250 23/4P Gn CMR 1000PB	199995-8B	Green	REELEX	1000
CAT 6 250 23/4P Gn CMR 1000RB	199995-8Н	Green	RIBS	1000
CAT 6 250 23/4P Bk CMR 1000PB	I99995-12B	Black	REELEX	1000
CAT 6 250 23/4P Bk CMR 1000RB	199995-12Н	Black	RIBS	1000
CAT 6 250 23/4P Rd CMR 1000PB	199995-9B	Red	REELEX	1000
CAT 6 250 23/4P Rd CMR 1000RB	199995-9Н	Red	RIBS	1000
CAT 6 250 23/4P Pk CMR 1000PB	I99995-4B	Pink	REELEX	1000
CAT 6 250 23/4P Pk CMR 1000RB	199995-4Н	Pink	RIBS	1000
CAT 6 250 23/4P Pe CMR 1000PB	I99995-13B	Purple	REELEX	1000
CAT 6 250 23/4P Pe CMR 1000RB	199995-13Н	Purple	RIBS	1000

Specification Issue Date: 1/18/16	Rev Level:	ERF:	ECN:	Designed by:

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