



PRODUCT DATA SHEET

Controlled Document – Engineering Drive

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

PART NUMBER: P19915 CAT 5e 350 CMP

Pg.1 of 3

DESCRIPTION: 4PR 24 AWG UTP CATEGORY 5e 350MHz. SOLID BC CONDUCTORS
PREMISE COMMUNICATION CABLE; 60C 300V PLENUM RATED; CMP

CONSTRUCTION: 24 AWG SOLID BARE COPPER; 4 UNSHIELDED TWISTED PAIRS

INSULATION: FEP (0.035" 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: LS-PVC

DIAMETER: 0.185" Nominal

CABLE WT: 22 Lbs/1000 Ft Approx (Net Weight)

PRINT LEGEND: SOUTHWIRE® TAPPAN™ P19915 24 AWG 4PR UTP CAT 5E (UL E# PLANT ID)
C(UL)JUS CMP --- CMP FT6 TESTED TO 350MHZ ETL VERIFIED TO ANSI/TIA-
568.C.2 CAT 5E MADE IN USA RoHS-2 COMPLIANT
(Date & Lot Info) (Seq. Foot Marking)

NEC: CMR
FOR RISER RATED VERSION GO TO SPEC. NO. R19776

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

FLAME TEST: NFPA 262

TEMP/VOLTAGE: 60C UL / 300V

MISC: MADE IN USA

PRODUCT ELECTRICAL CHARACTERISTICS:

CAPACITANCE: 15 pF/Ft

CAP. UNBALANCE: 3.3 pF/m

VEL OF PROP: 68%

DELAY SKEW: 45 ns/100m Maximum

PROP. DELAY: 545 ns/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.

The information presented here is, to the best of our knowledge, true and accurate. Since conditions of use are beyond Southwire's control all product data presented is for informational purposes only and does not create a binding obligation or liability on Southwire or confer any rights on any customer. The sale of product(s) is conditional upon acceptance of a purchase order subject to Southwire's standard terms and conditions contained therein, including without limitation Southwire's standard warranty. Southwire disclaims all liability in connection with the use of information contained herein or otherwise.

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PRODUCT ELECTRICAL CHARACTERISTICS (Cont.)

Freq. (MHz)	Attenuation (dB/100m)		NEXT (dB/100m)	ACR (dB/100m)		PSNEXT (dB/100m)	PSACR (dB/100m)		ACRF (dB/100m)	PS ACRF (dB/100m)	RL (dB)
	Std.	Avg.	Std.	Min.	Avg.	Min.	“Std”	Avg	Min	Min.	Avg.
1	2.0	2.0	65.3	63.3	63.3	62.3	60.3	60.3	63.8	60.8	20.0
4	4.1	3.8	56.3	52.2	52.5	53.3	49.2	49.5	57.1	54.1	23.0
8	5.8	5.4	51.8	46.0	46.4	48.8	43.0	43.4	48.2	45.2	24.5
10	6.5	6.0	50.3	43.8	44.3	47.3	40.8	41.3	43.8	40.8	25.0
16	8.2	7.6	47.3	39.1	39.7	44.3	36.1	36.7	39.7	36.7	25.0
20	9.3	8.5	45.8	36.5	37.3	42.8	33.5	34.3	37.7	34.7	25.0
25	10.4	9.6	44.5	34.1	34.9	41.3	30.9	31.7	36.0	33.0	24.3
31.25	11.7	10.7	42.9	31.2	32.2	39.9	28.2	29.2	33.9	30.9	23.6
62.5	17.0	15.5	38.4	21.4	22.9	35.4	18.4	19.9	27.8	24.8	21.5
100	22.0	19.9	35.3	13.3	15.4	32.3	10.3	12.4	23.8	20.8	20.1
155	--	25.3	32.4	--	7.1	29.4	--	4.2	20.0	17.0	18.8
200	--	29.2	30.8	--	1.6	27.8	--	(1.4)	17.8	14.8	18.0
250	--	36.0	29.3	--	--	26.3	--	--	15.8	12.8	17.4
300	--	41.0	29.2	--	--	25.2	--	--	14.4	11.4	16.8
350	--	44.9	27.1	--	--	24.1	--	--	12.9	9.9	16.3

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

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COLORS and PACKAGES

Description	Part Number	Jacket Color	Pkg Type	Pkg Length
CAT 5e 24/4P 350 MHz Be CMP 1000PB	P19915-2B	BLUE	REELEX	1000
CAT 5e 24/4P 350 MHz Be CMP 1000RIB	P19915-2H	BLUE	RIB	1000
CAT 5e 24/4P 350 MHz We CMP 1000PB	P19915-1B	WHITE	REELEX	1000
CAT 5e 24/4P 350 MHz We CMP 1000RIB	P19915-1H	WHITE	RIB	1000
CAT 5e 24/4P 350 MHz Yw CMP 1000PB	P19915-5B	YELLOW	REELEX	1000
CAT 5e 24/4P 350 MHz Yw CMP 1000RIB	P19915-5H	YELLOW	RIB	1000
CAT 5e 24/4P 350 MHz Gy CMP 1000PB	P19915-3B	GRAY	REELEX	1000
CAT 5e 24/4P 350 MHz Gy CMP 1000RIB	P19915-3H	GRAY	RIB	1000
CAT 5e 24/4P 350 MHz Oe CMP 1000RIB	P19915-9H	ORANGE	RIB	1000
CAT 5e 24/4P 350 MHz Gn CMP 1000PB	P19915-6B	GREEN	REELEX	1000
CAT 5e 24/4P 350 MHz Gn CMP 1000RIB	P19915-6H	GREEN	RIB	1000

Specification Issue Date: 3/1/16	Rev Level:	ERF:	ECN:	Designed by:
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