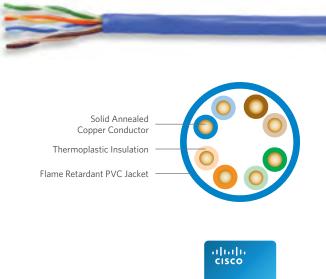
CMR-LP/CMP-LP





Partner



SPECIFICATIONS					
Pair Count	4				
Conductor	Solid annealed copper				
AWG (mm)	22 (0.64)				
Insulation	CMR: Polyolefin CMP: FEP				
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown				
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC				
Characteristic Impedance Ohms	100 ± 15				
Nominal Velocity of Propagation $\%$	CMR: 71 CMP: 74				
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) HDBaseT Class A and B				
NRTL Programs	UL Verified CAT 5e UL listed CMR-LP (0.5) c(UL) listed CMR UL Listed CMP-LP (0.6) c(UL) Listed CMP HDBaseT Certified				
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant				

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

PowerWise® 1G 4PPoE cables provide the best performance and overall value for 4 Pair Power over Ethernet (4PPoE) applications requiring up to 100W of power and up to 1 Gigabit Ethernet performance. PowerWise 1G 4PPoE cables are specifically designed to mitigate temperature build-up, offer exceptional energy efficiency and ensure performance (up to 1 Gigabit Ethernet) over the lifetime of your system.

PowerWise 1G 4PPoE cable provides the performance benefits of a typical CAT 5E cable including a small diameter. Cable temperature increases are reduced and power efficiency is increased as a result of 22 gauge conductors. Plenum rated conductors are also 100% FEP insulated and ensure cable performance over the life of your system. PowerWise 1G 4PPoE cables are the best solution to connect and power your 4PPoE applications compared to standard CAT 5e and 6 designs.

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APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- 4PPoE IEEE 802.3bt Type 3 and 4 draft D1.2
- ATM and token ring
- HDBaseT Class A and B

EEATIIDES

F	EATURES	BENEFITS				
•	UL Certified Environmental Product Declaration (EPD)	Contributes toward 1 LEED credit under the Material and Resources credit (MRc)				
•	Health Product Declaration™ (HPD™)	 Contributes toward 1 LEED credit under the MRc 				
•	Guaranteed 0.3 dB headroom for IL, ACR and PSACR	 Performance assurance for exceptional overall channel performance 				
•	Tested 350 MHz	 Assures ample bandwidth Headroom 				
	Tested in most severe temperature conditions in bundle of 100 cables	• AWG 22 insulated wire offers 88% power efficiency and lowest temperature increase inside a bundle, the best of its class				
	CableID® alpha numeric code printed every 2 feet	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable 				
•	QuickCount [®] marking system in feet and meters	 Provides remaining length of cable on reel 				
•	ColorTip [®] circuit identification system	 Easily identifiable conductor mates even in low-light environments 				
•	Color coded box labels	 Easily identifies jacket colors 				
•	HDBaseT Class A and B certified	 Ideal for any A/V applications up to 100m channel 				
•	UL LP listed	 Third-party assurance of product safety in high-heat and high-power applications 				

• Temperature cable rating: 75°C for CMR and 90°C for CMP

• Temperature rating of the

insulation AND of the jacket provide improved cable lifespan despite high-heat and high-power applications

A-80

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

Listing	ting Part Number ¹		Nominal Diamete in (mm)	er Approx. Weight lbs/kft (kg/km)	Package	Pack	Packages per Pallet	
CMR	PW52-H46-x5		0.23 (4.6)	28 (25)	1,000 ft BrakeBo	×®	12	
CMR	PW52-H72-x5		0.23 (4.6) 28 (25)		1,000 ft Plywood Reel		16	
CMP	PW52-H46-x8		0.23 (4.8)	37 (28)	1,000 ft BrakeBo	×®	12	
СМР	PW52-H72-x8		0.23 (4.8)	37 (28)	1,000 ft Plywood	Reel	16	
KET COLORS								
eplace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5 Yellow = 6	Purple = 7	Red = 9	Black = E	

ELECTRICAL SPECIFICATIONS

	Insertion Loss @ 20°C Maximum dB/100 m			NEXT Minimum dB/100 m		ACR Minimum dB/100 m			PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex
MHz	Specified	Guaranteed	Typical	Specified	Typical	Calculated	Guaranteed	Typical	Specified	Typical
1	2	1.7	1.7	65.3	76.8	63.3	63.6	81.0	62.3	75.3
4	4.1	3.8	3.7	56.3	67.8	52.2	52.5	70.1	53.3	66.3
8	5.8	5.5	5.4	51.8	63.3	46.0	46.3	63.9	48.8	61.8
10	6.5	6.2	6.0	50.3	61.8	43.8	44.1	61.8	47.3	60.3
16	8.2	7.9	7.7	47.2	58.7	39.0	39.3	57.0	44.3	57.2
20	9.3	9.0	8.6	45.8	57.3	36.5	36.8	54.7	42.8	55.8
25	10.4	10.1	9.6	44.3	55.8	33.9	34.2	52.2	41.3	54.3
31.25	11.7	11.4	10.8	42.9	54.4	31.2	31.5	49.6	39.9	52.9
62.5	17	16.7	15.5	38.4	49.9	21.4	21.7	40.4	35.4	48.4
100	22	21.7	19.8	35.3	46.8	13.3	13.6	33.0	32.3	45.3
155			24.8		43.9			25.1		42.4
200			28.2		42.3			20.1		40.8
250			31.8		40.8			15.0		39.3
300			35		39.6			10.6		38.1
350			38.3		38.6			6.3		37.1

Frequency MHz	PSACR Minimum dB/100 m				s Minimum 00 m	ELFEXT Minimum dB/100 m		PSELFEXT Minimum dB/100 m	
	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
	Calculated	Guaranteed	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	60.6	78.3	20.0	33.0	63.8	74.6	60.8	69.3
4	49.2	49.5	67.4	23.0	36.0	51.8	62.6	48.8	57.3
8	43.0	43.3	61.2	24.5	37.5	45.7	56.5	42.7	51.2
10	40.8	41.1	59.1	25.0	38.0	43.8	54.6	40.8	49.3
16	36.1	36.4	54.3	25.0	38.0	39.7	50.5	36.7	45.2
20	33.5	33.8	52.0	25.0	38.0	37.8	48.6	34.8	43.3
25	30.9	31.2	49.5	24.3	37.3	35.8	46.6	32.8	41.3
31.25	28.2	28.5	46.9	23.6	36.6	33.9	44.7	30.9	39.4
62.5	18.4	18.7	37.7	21.5	34.5	27.9	38.7	24.9	33.4
100	10.3	10.6	30.3	20.1	33.1	23.8	34.6	20.8	29.3
155			22.4		31.8		30.8		25.5
200			17.4		31.0		28.6		23.3
250			12.3		30.3		26.6		21.3
300			7.9		29.8		25.1		19.8
350			3.6		29.3		23.7		18.4

SUSTAINABILITY LEADERSHI











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