

# CAT 3 U/UTP CMR 100PAIR/24AWG

## PART NO. 3CMR24100RX

### DESCRIPTION

• 24 AWG/25 Pair unshielded twisted pair 1000' feet solid copper on wood reels. Cable comes with standard ripcord for stripping jacket and it is marked every two feet so one can see how much cable is left in the box.

### FEATURES AND BENEFITS

- Used for Voice communications
- Jacket: Flame - retardant PVC / Sequential footage markings
- Rip Cord is applied longitudinally under jacket
- Verified by third-party for guaranteed performance

### APPLICATIONS

- Voice/Telephone/Fast Ethernet
- 10 Base - T
- 100 Base - T4
- 100 Base - X 100 Base - VG
- 4/16 Mbps Token Ring ANSI X3T9.5 TP - PMD (FDDI)
- ATM PMD 155 Mbps

### STANDARD COMPLIANCES

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class EI)
- ICEA 8-102-700 (Category 6 or 5E)
- REACH Compliant
- CPR Compliant (Fully Comply to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

### PHYSICAL PROPERTIES

	CMR (Non-Plenum)
Conductor	Solid Bare Copper
Conductor Diameter (mm)	0.50
Average Thickness (±0.03mm)	0.16
Minimum Point Thickness (mm)	0.15
Unit Lay Length (mm)	500 underneath
Color Tape Lay Length (mm)	<150
Maximum Pulling Force (lbs)	
Twisting Lay Length	80 underneath
100P Cabling Lay Length (mm)	800 underneath
Installation Dia (±0.05mm)	0.83

JACKET		CMR (Non-Plenum)
Filler		Without
Average Thickness (±0.1mm)		0.80
Minimum Point Thickness (mm)		0.75
Before Aging	Tensile Strength (Mpa)	≥13.8
	Elongation (%)	≥100
After Aging	Tensile Strength (Mpa)	≥85% of unaged
	Elongation (%)	≥50% of unaged
Cold Bend (No Crack)		-20±2°Cx4hrs
Temperature Rating		-20°C to +75°C
Max Pull Strength		200N
Aging Condition (°Cxhrs)		100x240
Standard Color		Gray

### ELECTRICAL CHARACTERISTICS

Elongation of Conductor	Min 15%
Elongation of Insulation	Min 300%
Tensile Strength of Insulation	Min 6Mpa
Shrinkage of Insulation	Max 5%
Elongation of Jacket (unaged)	Min 200%
Tensile strength of Jacket (unaged)	Min 12Mpa
Capacitance	56pF/km
Capacitance unbalance	500pF/100km
Max. Conductor DC Resistance 20°C	≤93.8
Resistance Unbalance (%)	≤5
Insulation Resistance	5000MΩ-km
Dielectric Strength	DC. 1.5kv, 7min

CAT 3 U/UTP CMR 25PAIR/24AWG ELECTRICAL SPECIFICATION				
FREQUENCY (MHz)	ATTENUATION (DB/100m)	NEXT (DB)	SRL (DB)	IMPEDANCE (DB/100m)
0.772	2.2	43	12	100 ± 15
1	2.6	41	12	100 ± 15
4	5.6	32	12	100 ± 15
8	8.5	28	12	100 ± 15
10	9.7	26	12	100 ± 15
16	13.1	23	10	100 ± 15

100 PAIR			COLOR CODE		
Pair 1	O	W	Pair 46	O	VT
Pair 2	OR	W	Pair 47	OR	VT
Pair 3	V	W	Pair 48	V	VT
Pair 4	BN	W	Pair 49	BN	VT
Pair 5	G	W	Pair 50	G	VT
Pair 6	O	R	Pair 51	O	W
Pair 7	OR	R	Pair 52	OR	W
Pair 8	V	R	Pair 53	V	W
Pair 9	BN	R	Pair 54	BN	W
Pair 10	G	R	Pair 55	G	W
Pair 11	O	B	Pair 56	O	R
Pair 12	OR	B	Pair 57	OR	R
Pair 13	V	B	Pair 58	V	R
Pair 14	BN	B	Pair 59	BN	R
Pair 15	G	B	Pair 60	G	R
Pair 16	O	Y	Pair 61	O	B
Pair 17	OR	Y	Pair 62	OR	B
Pair 18	V	Y	Pair 63	V	B
Pair 19	BN	Y	Pair 64	BN	B
Pair 20	G	Y	Pair 65	G	B
Pair 21	O	VT	Pair 66	O	VT
Pair 22	OR	VT	Pair 67	OR	VT
Pair 23	V	VT	Pair 68	V	VT
Pair 24	BN	VT	Pair 69	BN	VT
Pair 25	G	VT	Pair 70	G	VT
Pair 26	O	W	Pair 71	O	W
Pair 27	OR	W	Pair 72	OR	W
Pair 28	V	W	Pair 73	V	W
Pair 29	BN	W	Pair 74	BN	W
Pair 30	G	W	Pair 75	G	W
Pair 31	O	R	Pair 76	O	R
Pair 32	OR	R	Pair 77	OR	R
Pair 33	V	R	Pair 78	V	R
Pair 34	BN	R	Pair 79	BN	R
Pair 35	G	R	Pair 80	G	R
Pair 36	O	B	Pair 81	O	B
Pair 37	OR	B	Pair 82	OR	B
Pair 38	V	B	Pair 83	V	B
Pair 39	BN	B	Pair 84	BN	B
Pair 40	G	B	Pair 85	G	B
Pair 41	O	Y	Pair 86	O	VT
Pair 42	OR	Y	Pair 87	OR	VT
Pair 43	V	Y	Pair 88	V	VT
Pair 44	BN	Y	Pair 89	BN	VT
Pair 45	G	Y	Pair 90	G	VT
Pair 91	O	W			
Pair 92	OR	W			
Pair 93	V	W			
Pair 94	BN	W			
Pair 95	G	W			
Pair 96	O	R			
Pair 97	OR	R			
Pair 98	V	R			
Pair 99	BN	R			
Pair 100	G	R			

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