



LOCAL AREA NETWORK RISER CABLE

CATEGORY 5 - STRANDED

NEC 800 TYPE CMR/MP
CSA TYPE PCC FT-4
ETL VERIFIED TO EIA/TIA
24 AWG-7/32

DESCRIPTION:

Stranded bare copper, insulated, twisted, yellow jacket

APPLICATIONS:

IBM Type 3 IEEE 802.3 (10 BASE T), Ethernet IEEE 802.5 16Mbps
Token Ring, other high speed data applications up to and including
20Mbps data transmission rates

COLOR CODE:

Chart 9 Modified, Back cover

PACKAGING: Spool or dispenser box designated by U at end of PN

OLYMPIC NO.	NUMBER OF PAIRS	NOM. OD (INCH)
3078M5F-4	4	.213"

DC CONDUCTOR RESISTANCE -

MAX. INDIVIDUAL 25.7Ohms/kFT

MUTUAL CAPACITANCE @ 1MHz -

MAX. INDIVIDUAL 14pF/kFT

CAPACITANCE UNBALANCE PAIR TO GROUND -

MAX. INDIVIDUAL 1000pF/kFT

ATTENUATION		NEAR-END CROSSTALK LOSS	
FREQ. (MHz)	MAX. IND. (dB/kFT)	FREQ. (MHz)	MIN. IND. (dB/kFT)
0.772	5.7	0.772	58
1.0	6.5	1.0	56
4.0	13.0	4.0	47
8.0	19.0	8.0	42
10.0	22.0	10.0	41
16.0	27.0	16.0	28
20.0	31.0	20.0	36

IMPEDANCE

FREQ. Ohms
(MHz)

0.772 102 ± 15%
1.0-20.0 100 ± 15%

*CATEGORY 5 E

NEC 800 TYPE CMR/MP
CSA TYPE PCC FT-4
ETL VERIFIED TO EIA/TIA
24 AWG

DESCRIPTION:

Solid bare copper, insulated, twisted, gray jacket*

APPLICATIONS:

IBM Type 3 IEEE 802.3 (10 BASE T), Ethernet IEEE 802.5 16Mbps
Token Ring, other high speed data applications up to and including
100Mbps data transmission rates

COLOR CODE:

Chart 9 Modified, Back cover

PACKAGING: Spool or dispenser box designated by U at end of PN

OLYMPIC NO.	NUMBER OF PAIRS	NOM. OD (INCH)
3077M5U	2	.181"
*3078M5U	4	.205"
3083M5	25	.420"

*Other color jackets available.

DC CONDUCTOR RESISTANCE -

MAX. INDIVIDUAL 25.7Ohms/kFT

MUTUAL CAPACITANCE @ 1MHz -

MAX. INDIVIDUAL 14pF/kFT

CAPACITANCE UNBALANCE PAIR TO GROUND -

MAX. INDIVIDUAL 1000pF/kFT

ATTENUATION		NEAR-END CROSSTALK LOSS	
FREQ. (MHz)	MAX. IND. (dB/kFT)	FREQ. (MHz)	MIN. IND. (dB/kFT)
0.772	5.5	0.772	64
1.0	6.3	1.0	62
4.0	13.0	4.0	53
8.0	18.0	8.0	48
10.0	20.0	10.0	47
16.0	25.0	16.0	44
20.0	28.0	20.0	42
25.0	32.0	25.0	41
31.25	36.0	31.25	40
62.5	52.0	62.5	35
100.0	67.0	100.0	32

IMPEDANCE

FREQ. Ohms
(MHz)

0.772 102 ± 15%
1.0-100.0 100 ± 15%

CHART No. 9 Standard Telephone Color Coding

TIP AND RING BAND MARKING COLOR CODE

Color Coding: Individual pairs are color coded by using solid colored wires or by applying colored bands of contrasting color to solid colored wires. Color combinations are such that each wire is banded with the color of its mate (e.g., in a blue and white pair, the blue wire has a white band and the white wire has a blue band). The band marked color code is shown in the table below.

Pair Color Code

PAIR NO.	TIP	RING	PAIR NO.	TIP	RING
1	White-Blue	Blue-White	14	Black-Brown	Brown-Black
2	White-Orange	Orange-White	15	Black-Slate	Slate-Black
3	White-Green	Green-White	16	Yellow-Blue	Blue-Yellow
4	White-Brown	Brown-White	17	Yellow-Orange	Orange-Yellow
5	White-Slate	Slate-White	18	Yellow-Green	Green-Yellow
6	Red-Blue	Blue-Red	19	Yellow-Brown	Brown-Yellow
7	Red-Orange	Orange-Red	20	Yellow-Slate	Slate-Yellow
8	Red-Green	Green-Red	21	Violet-Blue	Blue-Violet
9	Red-Brown	Brown-Red	22	Violet-Orange	Orange-Violet
10	Red-Slate	Slate-Red	23	Violet-Green	Green-Violet
11	Black-Blue	Blue-Black	24	Violet-Brown	Brown-Violet
12	Black-Orange	Orange-Black	25	Violet-Slate	Slate-Violet
13	Black-Green	Green-Black			

Cable Assembly: In cables having 25 pairs or less, the twisted pairs are assembled to form a substantially cylindrical core. In cables having more than 25 pairs, the pairs are arranged in groups, each containing a maximum of 25 pairs, each group with similar colors but wrapped with distinctively colored binder threads to permit distinction between groups. Binder thread color codes are shown in the table below.

Binder Thread Color Code

BINDER NO. BINDER COLOR

1	White-Blue
2	White-Orange

BINDER NO. BINDER COLOR

3	White-Green
4	White-Brown

CHART No. 10 *

* Color code repeats after 36 conductors

CON NO.	INSUL. COLOR	STRIPE COLOR	CON NO.	INSUL. COLOR	STRIPE COLOR	CON NO.	INSUL. COLOR	STRIPE COLOR
1	Black	—	13	Blue	Red	25	Yellow	Orange
2	Red	—	14	Orange	Red	26	Brown	Orange
3	Blue	—	15	Yellow	Red	27	Black	Yellow
4	Orange	—	16	Brown	Red	28	Red	Yellow
5	Yellow	—	17	Black	Blue	29	Blue	Yellow
6	Brown	—	18	Red	Blue	30	Orange	Yellow
7	Red	Black	19	Orange	Blue	31	Brown	Yellow
8	Blue	Black	20	Yellow	Blue	32	Black	Brown
9	Orange	Black	21	Brown	Blue	33	Red	Brown
10	Yellow	Black	22	Black	Orange	34	Blue	Brown
11	Brown	Black	23	Red	Orange	35	Orange	Brown
12	Black	Red	24	Blue	Orange	36	Yellow	Brown

CHART No. 11

Pair #1. Black Yellow	Pair #5. Black/White White/Black	Pair #9. Yellow/White White/Yellow
Pair #2. Red Violet	Pair #6. Brown/White White/Brown	Pair #10. Green/White White/Green
Pair #3. Blue Brown	Pair #7. Red/White White/Red	Pair #11. Blue/White White/Blue
Pair #4. Orange Green	Pair #8. Orange/White White/Orange	Pair #12. Violet/White White/Violet
		Plus one: Green/Yellow

CHART No. 12

1. Black paired with Black/White
 2. White paired with White/Black
 3. Red paired with White/Red
 4. Green paired with White/Green
 5. Brown paired with White/Brown
 6. Blue paired with White/Blue
 7. Orange paired with White/Orange
 8. Yellow paired with White/Yellow
 9. Violet paired with White/Violet
 10. Gray paired with White/Gray
 11. Pink paired with White/Pink
 12. Tan paired with White/Tan
- Single: Green/Yellow

