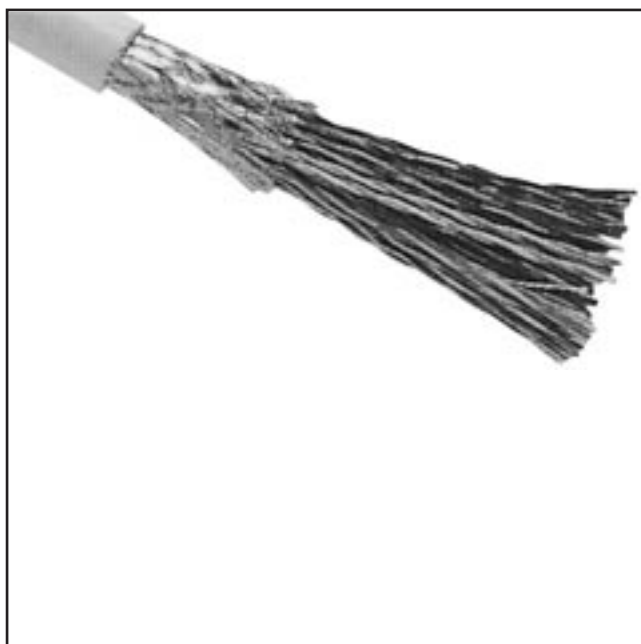


Round-Jacketed, Shielded, Discrete Wire Cable

28 AWG Stranded, Twisted Pairs, PVC/PVC

KU-C-KM Series



195

- 28 AWG stranded wire to provide flexibility
- Twisted pairs reduce crosstalk for balanced drive applications
- Jacket is round for better flexibility
- Wires are colour coded for easy identification
- Shielding provides excellent EMI/ESD protection

Physical

Jacket

Material: Polyvinyl Chloride (PVC)

Color: Cream

Primary Material: PVC

Marking

Standard: UL AWM Style 2798 VW-1 30V 60C E65859 3M EU < 50V

Conductors: 28 AWG 7 x 36 [7 x 0.127] Tinned Stranded Copper

Shielding: Tinned Copper Braid Shield, 80% coverage

Electrical

Voltage Rating: USA: 30V EU: <50V

Insulation Resistance: $1 \times 10^8 \Omega/10 \text{ ft. [3m]}$

	Unbalanced	Balanced
Characteristic Impedance:	54 Ω	80 Ω
Capacitance:	33.5 pF/ft (109.9 pF/m)	22.0 pF/ft (72.2 pF/m)
Inductance:	.10 $\mu\text{H/ft}$ (0.32 $\mu\text{H/m}$)	.14 $\mu\text{H/ft}$ (0.46 $\mu\text{H/m}$)
Propagation Delay:	1.8 ns/ft (5.9 ns/m)	1.7 ns/ft (5.8 ns/m)
Velocity of Propagation:	56%	58%

Note: Unbalanced is measured between conductors within a pair with one conductor connected to the shield.

Balanced is measured between conductors within a pair with the shield floating.

Environmental

Temperature Rating: -20°C to +60°C

Flammability Rating: UL: VW-1

UL File No.: E65859, Style No.: 2789

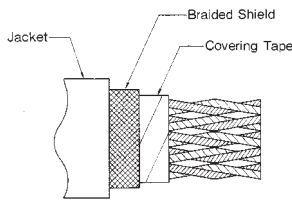
3M Electronic Products Division

<http://www.3M.com/interconnects/>

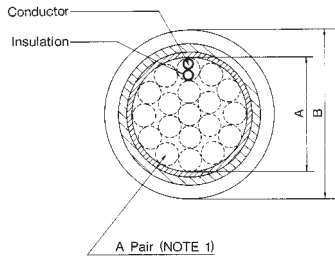
Round-Jacketed, Shielded, Discrete Wire Cable

28 AWG Stranded, Twisted Pairs, PVC/PVC

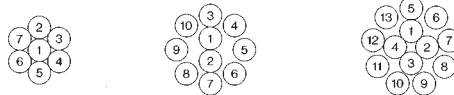
KU-C-KM Series



Pairs	Insulation Thickness (mm)	Diameter (mm)	Jacket Thickness (mm)	A (mm)	B (mm)
7				3.0	5.5
10				3.6	6.0
13				4.1	6.5
18				5.0	7.4
20	0.10	0.58	0.90	5.1	7.5
25				5.7	8.1
34				6.6	9.0
40				7.4	9.9
50				8.1	10.6



Twisted Pairs: Two Insulated Conductors shall be twisted to form a pair.



NO.		COLOR OF INSULATION		NO.		COLOR OF INSULATION		NO.		COLOR OF INSULATION	
1	BLACK	PINK	1	BLACK	PINK	1	BLACK	PINK	11	BLUE	WHITE
2	BROWN	PINK	2	BROWN	PINK	2	BROWN	PINK	12	VIOLET	WHITE
3	RED	PINK	3	BLACK	WHITE	3	RED	PINK	13	GRAY	WHITE
4	ORANGE	PINK	4	BROWN	WHITE	4	ORANGE	PINK			
5	YELLOW	PINK	5	RED	WHITE	5	BLACK	WHITE			
6	GREEN	PINK	6	GREEN	WHITE	6	BROWN	WHITE			
7	BLUE	PINK	7	YELLOW	WHITE	7	RED	WHITE			
			8	GREEN	WHITE	8	ORANGE	WHITE			
			9	BLUE	WHITE	9	YELLOW	WHITE			
			10	VIOLET	WHITE	10	GREEN	WHITE			

NO.		COLOR OF INSULATION			
6	GREEN	PINK	11	YELLOW	WHITE
7	BLACK	WHITE	12	GREEN	WHITE
8	BROWN	WHITE	13	BLUE	WHITE
9	RED	WHITE	14	VIOLET	WHITE
10	ORANGE	WHITE	15	GRAY	WHITE
11	YELLOW	WHITE	16	PINK	WHITE
12	GREEN	WHITE	17	BLACK	GRAY
13	BLUE	WHITE	18	BROWN	GRAY
14	VIOLET	WHITE			
15	GRAY	WHITE			
16	PINK	WHITE			
17	BLACK	GRAY			
18	BROWN	GRAY			

NO.		COLOR OF INSULATION			
6	GREEN	PINK	11	YELLOW	WHITE
7	BLUE	PINK	12	GREEN	WHITE
8	BLACK	WHITE	13	BLUE	WHITE
9	BROWN	WHITE	14	VIOLET	WHITE
10	RED	WHITE	15	GRAY	WHITE
11	ORANGE	WHITE	16	PINK	WHITE
12	YELLOW	WHITE	17	BLACK	GRAY
13	GREEN	WHITE	18	BROWN	GRAY
14	BLUE	WHITE	19	BROWN	GRAY
15	VIOLET	WHITE	20	RED	GRAY
16	GRAY	WHITE			
17	PINK	WHITE			
18	BLACK	GRAY			
19	BROWN	GRAY			
20	RED	GRAY			

NO.		COLOR OF INSULATION			
11	YELLOW	WHITE	26	ORANGE	VIOLET
12	GREEN	WHITE	27	YELLOW	VIOLET
13	BLUE	WHITE	28	BROWN	BLUE
14	VIOLET	WHITE	29	BROWN	BLUE
15	GRAY	WHITE	30	RED	BLUE
16	PINK	WHITE	31	ORANGE	BLUE
17	BLACK	GRAY	32	YELLOW	BLUE
18	BROWN	GRAY	33	GREEN	BLUE
19	RED	GRAY	34	VIOLET	BLUE
20	ORANGE	GRAY	35	PINK	BLUE
21	YELLOW	GRAY	36	BLACK	GREEN
22	GREEN	GRAY	37	BROWN	GREEN
23	BLUE	GRAY	38	RED	GREEN
24	VIOLET	GRAY	39	ORANGE	GREEN
25	PINK	GRAY	40	YELLOW	GREEN
26	BLACK	VIOLET	41	VIOLET	GREEN
27	BROWN	VIOLET	42	PINK	GREEN
28	BROWN	BLUE	43	BLACK	YELLOW
29	BROWN	BLUE	44	BROWN	YELLOW
30	RED	BLUE	45	RED	YELLOW
31	ORANGE	BLUE	46	ORANGE	YELLOW
32	YELLOW	BLUE	47	PINK	YELLOW
33	GREEN	BLUE	48	BLACK	ORANGE
34	VIOLET	BLUE	49	BROWN	ORANGE
			50	RED	ORANGE

NO.		COLOR OF INSULATION			
11	YELLOW	WHITE	26	ORANGE	VIOLET
12	GREEN	WHITE	27	YELLOW	VIOLET
13	BLUE	WHITE	28	BROWN	BLUE
14	VIOLET	WHITE	29	BROWN	BLUE
15	GRAY	WHITE	30	RED	BLUE
16	PINK	WHITE	31	ORANGE	BLUE
17	BLACK	GRAY	32	YELLOW	BLUE
18	BROWN	GRAY	33	GREEN	BLUE
19	RED	GRAY	34	VIOLET	BLUE
20	ORANGE	GRAY			
21	YELLOW	GRAY			
22	GREEN	GRAY			
23	BLUE	GRAY			
24	VIOLET	GRAY			
25	PINK	GRAY			
26	BLACK	VIOLET			
27	BROWN	VIOLET			
28	RED	VIOLET			
29	ORANGE	VIOLET			
30	YELLOW	VIOLET			
31	GREEN	VIOLET			
32	BLUE	VIOLET			
33	PINK	VIOLET			
34	BLACK	BLUE			

NO.		COLOR OF INSULATION			
1	BLACK	PINK	21	BROWN	VIOLET
2	BROWN	PINK	22	RED	VIOLET
3	BLACK	WHITE	23	BLACK	BLUE
4	BROWN	WHITE	24	BROWN	BLUE
5	RED	WHITE	25	RED	BLUE
6	ORANGE	WHITE	26	ORANGE	BLUE
7	YELLOW	WHITE	27	YELLOW	BLUE
8	GREEN	WHITE	28	GREEN	BLUE
9	BLUE	WHITE	29	VIOLET	BLUE
10	BLACK	GRAY	30	PINK	BLUE
11	BROWN	GRAY	31	BLACK	GREEN
12	RED	GRAY	32	BROWN	GREEN
13	ORANGE	GRAY	33	RED	GREEN
14	YELLOW	GRAY	34	ORANGE	GREEN
15	GREEN	GRAY	35	YELLOW	GREEN
16	BLUE	GRAY	36	VIOLET	GREEN
17	VIOLET	GRAY	37	PINK	GREEN
18	PINK	GRAY	38	BLACK	YELLOW
19	WHITE	GRAY	39	BROWN	YELLOW
20	BLACK	VIOLET	40	RED	YELLOW

NO.		COLOR OF INSULATION			
1	BLACK	PINK	26	ORANGE	VIOLET
2	BROWN	PINK	27	YELLOW	VIOLET
3	RED	PINK	28	BROWN	BLUE
4	BLACK	WHITE	29	BROWN	BLUE
5	BROWN	WHITE	30	RED	BLUE
6	RED	WHITE	31	ORANGE	BLUE
7	ORANGE	WHITE	32	YELLOW	BLUE
8	YELLOW	WHITE	33	GREEN	BLUE
9	GREEN	WHITE	34	VIOLET	BLUE
10	BLUE	WHITE	35	PINK	BLUE
11	VIOLET	WHITE	36	BLACK	GREEN
12	PINK	WHITE	37	BROWN	GREEN
13	BLACK	GRAY	38	RED	GREEN
14	BROWN	GRAY	39	ORANGE	GREEN
15	RED	GRAY	40	YELLOW	GREEN
16	ORANGE	GRAY	41	VIOLET	GREEN
17	YELLOW	GRAY	42	PINK	GREEN
18	GREEN	GRAY	43	BLACK	YELLOW
19	BLUE	GRAY	44	BROWN	YELLOW
20	VIOLET	GRAY	45	RED	YELLOW
21	PINK	GRAY	46	ORANGE	YELLOW
22	WHITE	GRAY	47	PINK	YELLOW
23	BLACK	VIOLET	48	BLACK	ORANGE
24	BROWN	VIOLET	49	BROWN	ORANGE
25	RED	VIOLET	50	RED	ORANGE

Ordering Information

KU-C-KM-XXC

Number of Pairs
(See Table)