

CM/2464-1007/IIA-SB LF

Electronic equipment cable

Multi core cable	Multi pair cable
Heat resistance ★★★	Heat resistance ★★★
Oil resistance ★★★★★	Oil resistance ★★★★★
Noise resistance ★★★	Noise resistance ★★★★★
Flame resistance ★★★★★	Flame resistance ★★★★★
Flexibility ★★★	Flexibility ★★★
non-migratory ★★★★★	non-migratory ★★★★★
Transport property ★	Transport property ★
※The characteristic is an aim.	※The characteristic is an aim.

Application

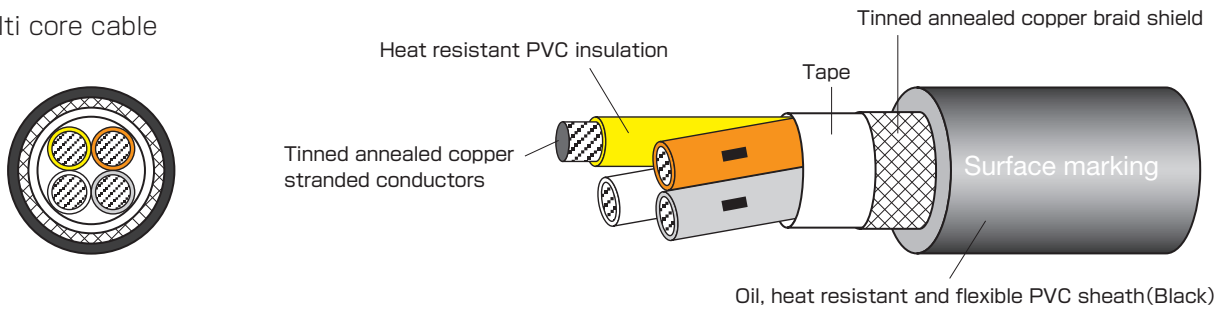
- Cable for RS232C (Only multi pair cables).
- It is possible to use it as a communication tray cable.
- The substitutions for UL13 CL3, CL3X shall be permitted.
- Shielded Electric equipment cable with UL and cUL at 300V, 80°C.
(Category : DUZX, DUZX7, AVLV2, AVLV8)
- Obtaining UL Listed CM, this cable compliants to NFPA70,79.

Feature

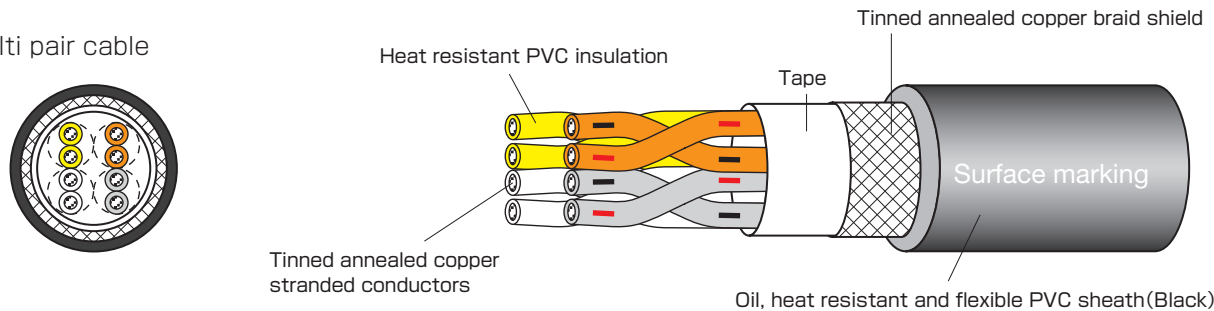
- Heat resistant PVC used for insulation.
- Oil, heat resistant and Flexible PVC sheath material is used.
- Flame resisting:UL VW-1, cUL FT1.
- It passes Vertical-Tray Flame Test of UL.

Construction figure

Multi core cable



Multi pair cable



Surface marking



※R15 indicates "Compliant with RoHS Directive 2011/65/EU and Directive (EU) 2015/863 (10 substances)".

Meeting standard

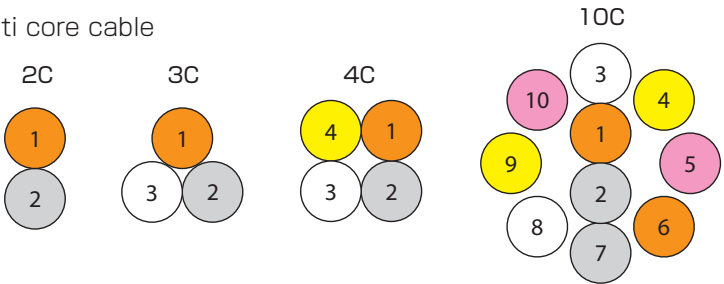
Certification	UL CM	cUL CM	UL AWM	cUL AWM
Applicable standard	UL 444	CSA C22.2 No.214	UL 758	CSA C22.2 No.210
Official symbol	CM	CM	UL STYLE 2464	CSA AWM IIA
Voltage rating	300V	300V	300V	300V
Temperature rating	75°C	75°C	80°C	80°C
Conductor	UL 444	CSA C22.2 No.214	UL 758	CSA C22.2 No.210
Flame rating	Vertical-Tray Flame Test	Vertical-Tray Flame Test	VW-1	FT1



Identification

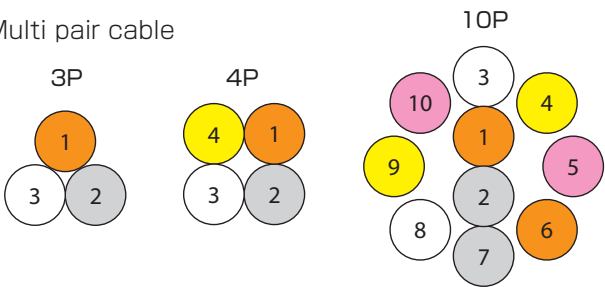
(1)For 22 and 20AWG

Multi core cable



Figures ○ indicate core number in the identification table 1.

Multi pair cable



Figures ○ indicate pair number in the identification table 2.

Identification table1

Line number	Color of insulation	Dot mark
1	Orange	
2	Gray	
3	White	
4	Yellow	
5	Peach	
6	Orange	
7	Gray	
8	White	
9	Yellow	
10	Peach	
11	Orange	
12	Gray	
13	White	
14	Yellow	
15	Peach	

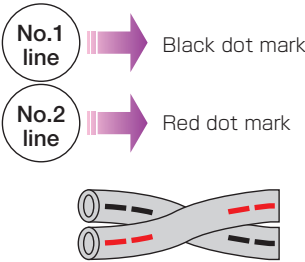
Line number	Color of insulation	Dot mark
16	Orange	
17	Gray	
18	White	
19	Yellow	
20	Peach	
21	Orange	(Continuation)
22	Gray	(Continuation)
23	White	(Continuation)
24	Yellow	(Continuation)
25	Peach	(Continuation)
26	Orange	
27	Gray	
28	White	
29	Yellow	
30	Peach	

Identification table2

Pair number	Color of insulation	Dot mark
1	Orange	
2	Gray	
3	White	
4	Yellow	
5	Peach	
6	Orange	
7	Gray	
8	White	
9	Yellow	
10	Peach	
11	Orange	
12	Gray	
13	White	
14	Yellow	
15	Peach	

Pair number	Color of insulation	Dot mark
16	Orange	
17	Gray	
18	White	
19	Yellow	
20	Peach	
21	Orange	(Continuation)
22	Gray	(Continuation)
23	White	(Continuation)
24	Yellow	(Continuation)
25	Peach	(Continuation)
26	Orange	
27	Gray	
28	White	
29	Yellow	
30	Peach	

Example of pare



The color of the insulator, the 1st and 2nd core is the same color.

The color of the 1st kind and the 2nd kind of dot mark is a black and red.

※A short point is 1mm, the length point is 2mm, the interval is 1mm, and the pitch is about 12mm.

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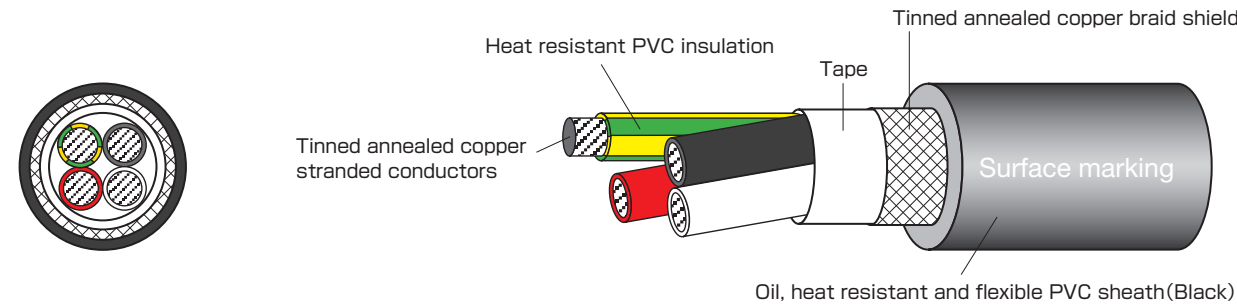
Electronic equipment cable

>>> Meeting standard



Identification

(2)For 20(※), 18 and 16AWG.(※20AWG is 2, 3, 4C only)



·2C~4C

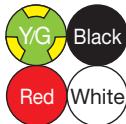
2C



3C



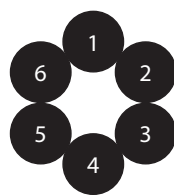
4C



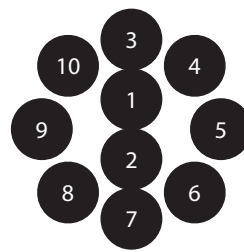
※Y/G indicates green core with yellow stripe(30~50%).

·6C~

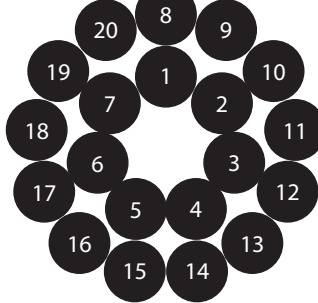
6C



10C



20C



Figures in ○ indicate white numbering on black insulator.



Construction table

No. of cores	Conductor			Heat resistant PVC insulation		Oil, heat - resistant flexible - PVC sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (inch)	Overall diameter approx. (mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩ km20°C)	Electrical strength (V/1min.)	
2C	22	17/0.16	0.76	0.066	1.68	0.240	6.1	33(49)	less than 57.5	more than 10	2000	9.2
3C	(0.324mm ²)	(17/6.3mil)	(30mil)			0.248	6.3	37(55)				7.7
4C						0.268	6.8	44(65)				7.0
2C						0.252	6.4	37(55)				11
3C						0.264	6.7	44(65)				10
4C						0.283	7.2	50(75)				9.1
6C	20	21/0.18	0.95	0.074	1.87	0.327	8.3	67(100)	less than 36.2	more than 10	2000	8.0
8C	(0.518mm ²)	(21/7.1mil)	(37mil)			0.374	9.5	87(130)				7.4
10C						0.406	10.3	101(150)				6.8
12C						0.417	10.6	114(170)				6.3
16C						0.457	11.6	141(210)				5.7
20C						0.504	12.8	175(260)				5.4
○30C						0.626	15.9	262(390)				4.7
2C						0.276	7.0	47(70)				15
3C						0.287	7.3	57(85)				15
4C	18	35/0.18	1.2	0.083	2.1	0.307	7.8	64(95)	less than 22.8	more than 10	2000	13
6C	(0.823mm ²)	(35/7.1mil)	(47mil)			0.358	9.1	91(135)				10
10C						0.445	11.3	138(205)				9.0
20C						0.559	14.2	235(350)				7.1
30C						0.693	17.6	353(525)				6.2
2C						0.299	7.6	57(85)				20
3C	16	26/0.26	1.5	0.096	2.45	0.315	8.0	71(105)	less than 14.3	more than 10	2000	20
4C	(1.30mm ²)	(26/10.2mil)	(59mil)			0.339	8.6	87(130)				18
6C						0.402	10.2	118(175)				13

○:Order production

No. of pairs	Conductor			Heat resistant PVC insulation		Oil, heat - resistant flexible - PVC sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (inch)	Overall diameter approx. (mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩ km20°C)	Electrical strength (V/1min.)	
3P						0.331	8.4	64(95)				6.3
4P						0.358	9.1	74(110)				5.7
5P						0.390	9.9	87(130)				5.3
6P	22	17/0.16	0.76	0.066	1.68	0.421	10.7	101(150)	less than 57.5	more than 10	2000	5.0
8P	(0.324mm ²)	(17/6.3mil)	(30mil)			0.488	12.4	124(185)				4.6
10P						0.488	12.4	138(205)				4.2
12P						0.547	13.9	168(250)				4.0
15P						0.642	16.3	225(335)				3.7
20P						0.740	18.8	282(420)				3.4

Allowable ampacity

·The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30°C.

·Allowable ampacity is calculated based on JCS0168. Allowable ampacity is calculated excluding grounding conductor.

·Please multiply the following correction coefficient by the ambient temperature.

Note) Please refer to P.270 when you use this cable according to NFPA70.

Adjustment factors(at ambient temperature)

Ambient temperature(°C)	30	40	50	60	70	80	90	100
Adjustment factors	1.00	0.89	0.77	0.63	0.45	—	—	—

Standard sales length

100m