

EXT-II-SB/20276 LF

Electronic equipment robot cable

Heat resistance	★★★
Oil resistance	★★★★★
Noise resistance	★
Flame resistance	★★★★
Torsion resistance	★★★★★
Flexibility resistance	★★★★★
Cable carrier	★★★★★★

*The characteristic is an aim.

>>> Meeting standard



Certification	UL AWM	cUL AWM
Applicable standard	UL 758	CSA C22.2 No.210
Official symbol	UL STYLE 20276	CSA AWM II A/B
Voltage rating	30V	30V
Temperature rating	80°C	80°C
Conductor	UL 758	CSA C22.2 No.210
Flame rating	VW-1	FT1

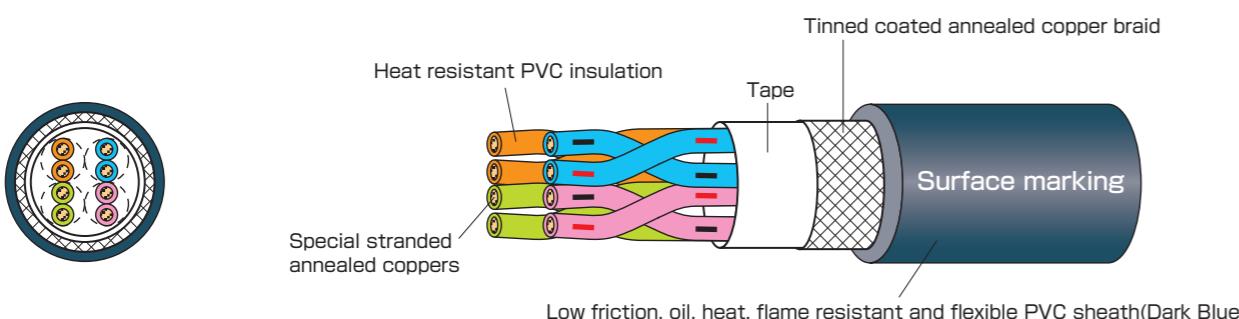
Application

- Appropriate for cable chain wiring for high-speed moving.
- Cable chain test 50 million times or more. (or more ability 100 million times)
- Shielded Robot cable with UL and cUL at 30V 80°C. (Category : AVL V2, AVL V8)

Feature

- Extremely fine special conductor use.
- Low friction and heat resistant PVC used for insulation.
- Oil and heat resistant PVC used for sheath.
- Low friction material used for sheath.
- Flame resisting : UL VW-1, cUL FT1.

Construction figure

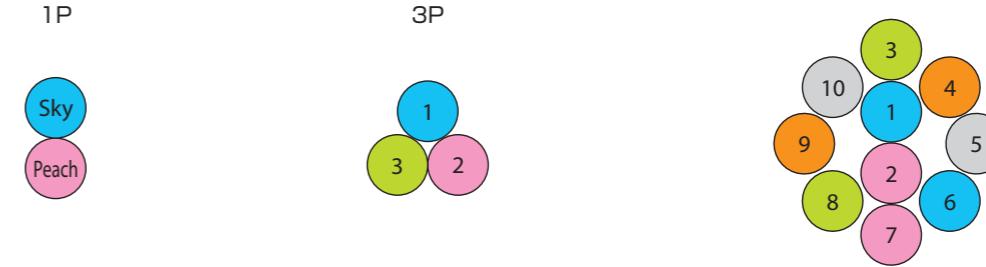


Surface marking

-EXT-II TAIYO □□AWG LF R15 E67647 AWM 20276 80°C VW-1 AWM II A/B 80°C 30V FT1-

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

Identification



*1P : Sky x Peach (No dot)

Figures O indicate pair number in the identification table.

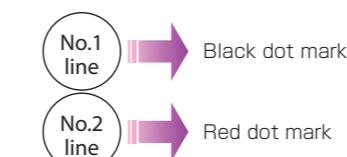
Identification table

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

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

*A short point is 1mm, the length point is 2mm, the interval is 1mm, and the pitch is about 12mm.
*10 pairs or more is double-circle structure. (except 28AWG)

Example of pair



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

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Construction table

No. of pairs	Conductor			Heat-resistant PVC insulation		Low friction, oil, heat, flame 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 (MΩkm20°C)	
1P						0.142	3.6	12(18)				2.6
2P						0.177	4.5	19(28)				2.0
3P						0.197	5.0	23(34)				1.8
4P						0.209	5.3	25(38)				1.6
5P	28 (0.0804mm ²)	19/0.08 (30/3.2mil)	0.4 (16mil)	0.034	0.86	0.224	5.7	29(44)	less than 235	more than 10	500	1.5
6P						0.244	6.2	33(50)				1.4
7P						0.260	6.6	40(60)				1.3
8P						0.295	7.0	43(65)				1.3
10P						0.327	8.3	57(85)				1.2
12P						0.366	9.3	73(110)				1.2
1P						0.173	4.4	18(27)				2.8
2P						0.217	5.5	28(41)				2.2
3P						0.248	6.3	34(50)				1.9
4P						0.264	6.7	37(55)				1.7
5P	26 (0.128mm ²)	30/0.08 (30/3.2mil)	0.51 (20mil)	0.038	0.97	0.283	7.2	44(65)	1.6			
6P						0.303	7.7	50(75)	1.5			
7P						0.323	8.2	57(85)	1.4			
8P						0.350	8.9	71(105)	1.4			
10P						0.354	9.0	74(110)				1.2
12P						0.390	9.9	84(125)				1.2
15P						0.425	10.8	101(150)				1.1
20P						0.472	12.0	131(195)				1.0
25P						0.535	13.6	155(230)				0.98
1P						0.193	4.9	22(33)				4.5
2P						0.252	6.4	37(55)				3.6
3P						0.280	7.1	44(65)				3.1
4P						0.303	7.7	54(80)				2.8
5P	24 (0.204mm ²)	48/0.08 (48/3.2mil)	0.75 (30mil)	0.048	1.21	0.335	8.5	60(90)	2.6			
6P						0.358	9.1	71(105)	2.4			
7P						0.382	9.7	81(120)	2.3			
8P						0.413	10.5	94(140)	2.3			
10P						0.413	10.5	101(150)	2.0			
12P						0.465	11.8	118(175)	1.9			
15P						0.508	12.9	141(210)	1.8			
20P						0.567	14.4	185(275)	1.6			
25P						0.646	16.4	225(335)	1.5			
1P						0.205	5.2	26(38)				5.8
2P						0.268	6.8	44(65)				4.6
3P						0.299	7.6	54(80)				4.0
4P						0.323	8.2	64(95)				3.6
5P	22 (0.324mm ²)	72/0.08 (72/3.2mil)	0.90 (35mil)	0.054	1.36	0.358	9.1	77(115)	3.4			
6P						0.390	9.9	91(135)	3.2			
7P						0.417	10.6	101(150)	3.0			
8P						0.453	11.5	118(175)	2.9			
10P						0.457	11.6	128(190)	2.7			
12P						0.500	12.7	148(220)	2.5			
15P						0.563	14.3	188(280)	2.4			
20P						0.626	15.9	239(355)	2.1			
25P						0.701	17.8	289(430)	2.0			
1P						0.232	5.9	34(50)				7.7
2P						0.299	7.6	57(85)				6.2
3P						0.343	8.7	74(110)				5.3
4P						0.370	9.4	87(130)				4.8
5P	20 (0.518mm ²)	119/0.08 (119/3.2mil)	1.1 (43mil)	0.063	1.60	0.406	10.3	108(160)	4.5			
6P						0.445	11.3	121(180)	4.2			
8P						0.512	13.0	158(235)	3.9			
10P						0.520	13.2	181(270)	3.5			
15P						0.646	16.4	269(400)	3.1			
20P						0.713	18.1	333(495)	2.8			
25P						0.811	20.6	413(615)	2.6			

*The test of 500V/5 minutes besides the withstand voltage test on above mentioned UL standard and CSA standard is applied.

Allowable amp