

UE/2501E-SB(N)/TC[Y/G] LF

For tray cable, race way and electronic equipment cable

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

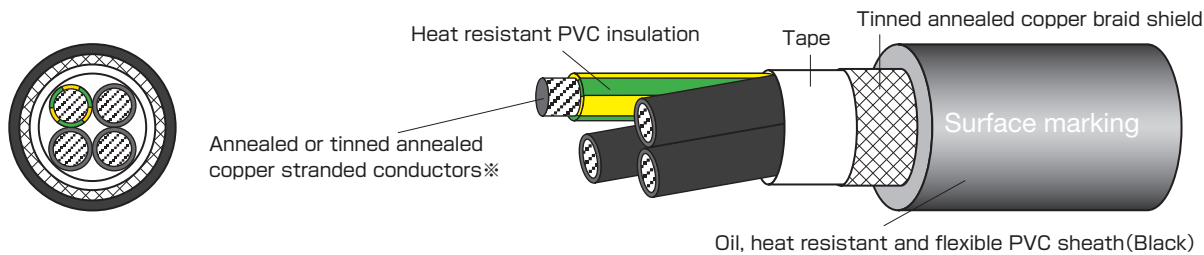
Application

- Multi-cable for North America and EU.
- Cable tray, for Raceway wiring.
- Shielded Electric equipment cable with UL and cUL at 600V, 105°C. (Category QPTZ, AVLA2, ZKHZ, AVLVB)
- CE marking.
- Obtaining UL Listed MTW and TC, this cable compliants to NFPA70 and 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



※ 12AWG or larger : annealed copper.

Surface marking

(1) 5 cores or less

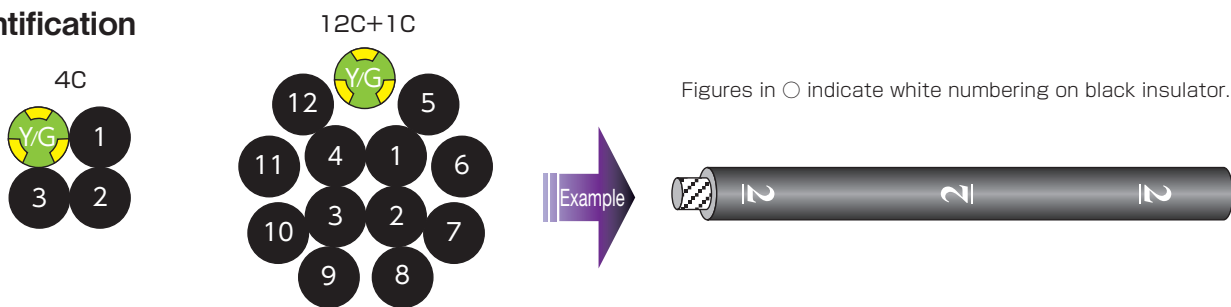
E209288(UL) TC-ER 600V 90°C DRY 75°C WET Size/Line number or MTW 600V Size/Line number FLEXING VW-1 or AWM 2501 VW-1 E67647 AWM IIA/B 105°C 600V FT1 TAIYO CE 05VV5-F 300/500V <PS>E ** LF R15

(2) 7 cores or more

E209288(UL) TC-ER 600V 90°C DRY 75°C WET Size/Line number+Size(Y/G)/1C or MTW 600V Size/Line number+Size(Y/G)/1C FLEXING VW-1 or AWM 2501 VW-1 E67647 AWM IIA/B 105°C 600V FT1 TAIYO CE 05VV5-F 300/500V <PS>E ** LF R15

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

Identification



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

Certification	UL AWM.cUL AWM	UL TC	UL MTW	CE marking	Electrical Appliance and Material Safety Law
Applicable standard	UL 758 CSA C22.2 No.210	UL 1277	UL 1063	EN50525-2-51	Departmental order to determine a technical standard of the electrical equipment
Official symbol	UL STYLE 2501 CSA AWM IIA/B	TC	MTW	Equivalent of H05VV5-F	Vinyl cab tire cord
Voltage rating	600V	600V	600V	300/500V	300V
Temperature rating	105°C	DRY90°C WET75°C	DRY90°C WET60°C	70°C	60°C
Conductor	UL 758 CSA C22.2 No.210	UL 1277	UL 1063	EN60228	JIS C 3102 JIS C 3152
Flame rating	VW-1.FT1	Vertical-Tray Flame Test	VW-1	EN50264-2-1	JIS C 3005 4.26.2 b)



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 (MΩkm20°C)	Electrical strength (V/1min.)	
3C						0.413	10.5	97(145)				20
4C						0.445	11.3	114(170)				17
6C+1C	18	35/0.18	1.2	0.114	2.9	0.567	14.4	192(285)				13
10C+1C	(0.823mm)	(35/7.1mil)	(47mil)			0.646	16.4	245(365)	less than 22.8	more than 60	2000	11
12C+1C						0.677	17.2	279(415)				10
20C+1C						0.823	20.9	396(590)				9.2
30C+1C						0.984	25.0	568(845)				7.9
3C	16	26/0.26	1.5	0.126	3.2	0.445	11.3	118(175)				26
4C	(1.30mm)	(26/10.2mil)	(59mil)			0.476	12.1	138(205)	less than 14.3	more than 60	2000	22
6C+1C						0.602	15.3	225(335)				18
3C	14	41/0.26	1.9	0.142	3.6	0.476	12.1	141(210)				34
4C	(2.08mm)	(41/10.2mil)	(75mil)			0.512	13.0	171(255)	less than 9.01	more than 60	2000	29
3C	12	65/0.254	2.4	0.161	4.1	0.516	13.1	178(265)				46
4C	(3.30mm)	(65/10mil)	(94mil)			0.563	14.3	222(330)	less than 5.45	more than 50	2000	39
3C	10	104/0.254	3.1	0.189	4.8	0.579	14.7	242(360)				61
4C	(5.26mm)	(104/10mil)	(122mil)			0.630	16.0	299(445)	less than 3.44	more than 50	2000	52

※Core number mark "+1C" has the [Y/G] earth cable of 14AWG size.

※3 or 4 and 7 or more cores of 14AWG more size has the [Y/G] earth cable of an equal size.

※The examination of 2000V/5 minute besides the withstand voltage test on above mentioned UL standard and the CSA standard is applied.

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 or NFPA79.

● Adjustment factors(at ambient temperature)

Ambient temperature(°C)	30	40	50	60	70	80	90	100
Adjustment factors	1.00	0.93	0.86	0.77	0.68	0.58	0.45	0.26

Standard sales length

100m

(Sales by short length is available for large sizes. Please contact us which sizes are available.)