

UE/2501-SB(N)/TC 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.

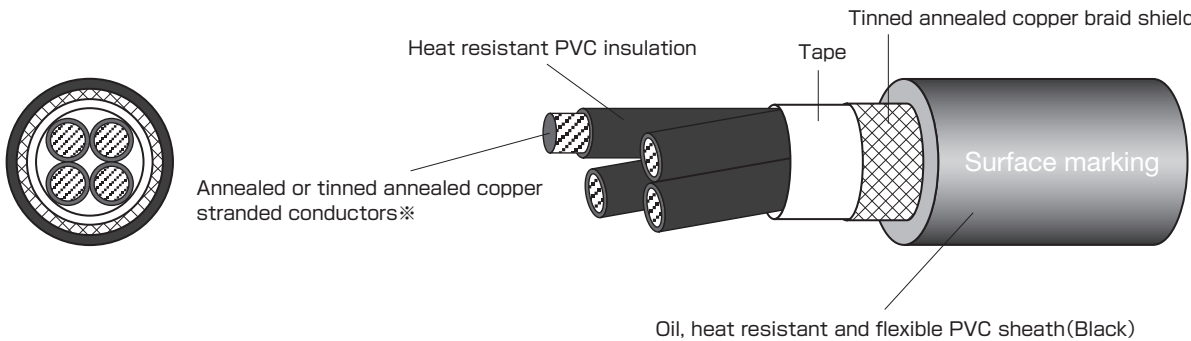
Application

- Cable tray, for Raceway wiring.
- Multi-cable for North America and EU.
- 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) 18~10AWG cables

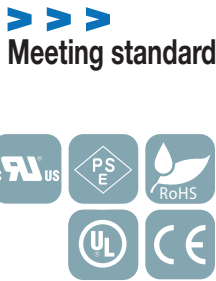
E209288 (UL) TC 600V 90°C DRY 75°C WET Size/Line number or MTW 600V Size/Line number FLEXING VW-1 or AWM 2501 VW-1 E67647 AWM IIA/B 105°C 600V FT1 TAIYO CE 05VV5-F 300/500V <PS>E ** LF R15

(2) 8~6AWG cables

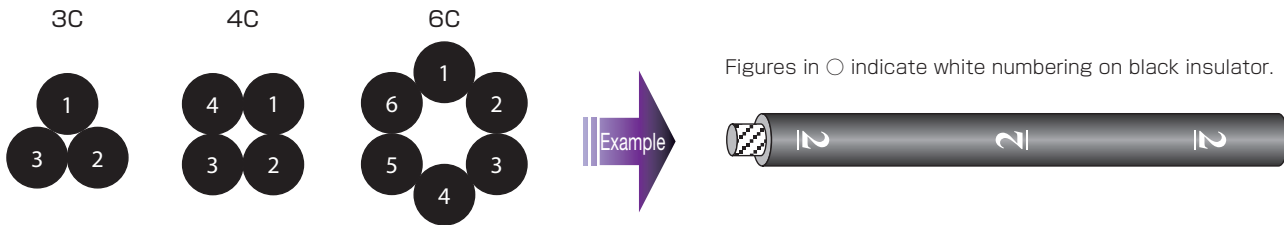
E209288 (UL) TC 600V 90°C DRY 75°C WET Size/Line number or MTW 600V Size/Line number VW-1 or AWM 2501 VW-1 E67647 AWM IIA/B 105°C 600V FT1 TAIYO CE 05VV5-F 300/500V LF R15

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

Certification	UL AWM.cUL AWM	UL TC	UL MTW	CE marking	Electrical Appliance andMaterial Safety Law (Only 18~10AWG)
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)



Identification



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	18 (0.823mm)	35/0.18 (35/7.1mil)	1.2 (47mil)	0.114	2.9	0.394	10.0	84(125)	less than 22.8	more than 60	2000	19
3C						0.413	10.5	97(145)				16
4C						0.445	11.3	114(170)				15
6C	16 (1.30mm)	26/0.26 (26/10.2mil)	1.5 (59mil)	0.126	3.2	0.512	13.0	155(230)	less than 14.3	more than 60	2000	13
2C						0.421	10.7	97(145)				26
3C						0.445	11.3	118(175)				22
4C	14 (2.08mm)	41/0.26 (41/10.2mil)	1.9 (75mil)	0.142	3.6	0.476	12.1	141(210)	less than 9.01	more than 60	2000	20
2C						0.453	11.5	118(175)				34
3C						0.476	12.1	141(210)				28
4C	12 (3.30mm)	65/0.254 (65/10mil)	2.4 (94mil)	0.161	4.1	0.512	13.0	171(255)	less than 5.45	more than 50	2000	26
2C						0.492	12.5	148(220)				45
3C						0.516	13.1	178(265)				38
4C	10 (5.26mm)	104/0.254 (104/10mil)	3.1 (122mil)	0.189	4.8	0.563	14.3	222(330)	less than 3.44	more than 50	2000	34
2C						0.547	13.9	192(285)				60
3C						0.579	14.7	242(360)				51
4C	8 (8.36mm)	7/24/0.254 (7/15/10mil)	4.2 (165mil)	0.299	7.6	0.630	16.0	299(445)	less than 2.41	more than 50	2500	46
3C						0.827	21.0	446(665)				67
4C						0.941	23.9	581(865)				60
3C	6 (13.3mm)	7/39/0.254 (7/39/10mil)	5.3 (209mil)	0.343	8.7	0.957	24.3	625(930)	less than 1.53	more than 50	2500	88
4C						1.047	26.6	780(1160)				79

※ Partial conductor construction is changed from production in August 2022.

For details, please contact our sales representative or the place of purchase.

※ 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 JCSO168.

· 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