

UE/2501 (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.

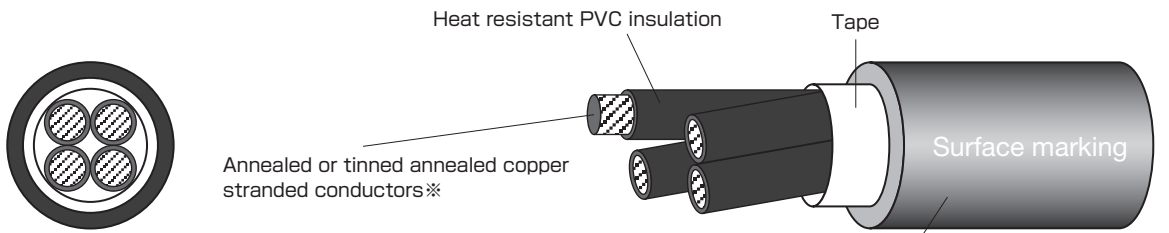
Application

- Multi-cable for North America and EU.
- Cable tray, for Raceway wiring.
- Electric equipment cable with UL and cUL at 600V, 105°C.
(Category QPTZ, AVLA2, ZKHZ, AVLV8)
- CE marking (TÜV recognition product).
(Certificate of TÜV No.(18~12AWG)J2151249)
(Certificate of TÜV No.(10~6AWG)J2051252)
- 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

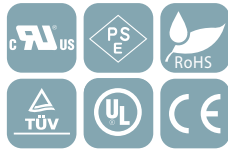
(2)8~6AWG cables

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

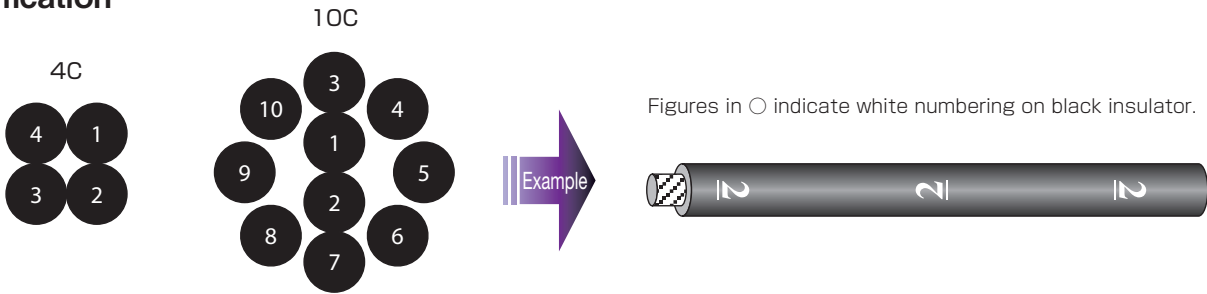
※R15 indicates "Compliant with RoHS Directive 2011/65/EU and Directive (EU) 2015/863 (10 substances)".

Certification	UL AWM.cUL AWM	UL TC	UL MTW	TÜV.CE marking	Electrical Appliance and Material 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)

>>> Meeting standard



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 (MΩkm20°C)	Electrical strength (V/1min.)	
2C	18	35/0.18 (35/7.1mil)	1.2 (47mil)	0.114	2.9	0.370	9.4	64(95)	less than 22.8	more than 60	2000	19
3C	18	35/0.18 (35/7.1mil)	1.2 (47mil)	0.114	2.9	0.390	9.9	77(115)				16
4C	18	35/0.18 (35/7.1mil)	1.2 (47mil)	0.114	2.9	0.417	10.6	91(135)				15
2C	16	26/0.26 (26/10.2mil)	1.5 (59mil)	0.126	3.2	0.398	10.1	77(115)	less than 14.3	more than 60	2000	26
3C	16	26/0.26 (26/10.2mil)	1.5 (59mil)	0.126	3.2	0.417	10.6	94(140)				22
4C	16	26/0.26 (26/10.2mil)	1.5 (59mil)	0.126	3.2	0.449	11.4	114(170)				19
2C	14	41/0.26 (41/10.2mil)	1.9 (75mil)	0.142	3.6	0.425	10.8	94(140)				34
3C	14	41/0.26 (41/10.2mil)	1.9 (75mil)	0.142	3.6	0.449	11.4	118(175)	less than 9.01	more than 60	2000	28
4C	14	41/0.26 (41/10.2mil)	1.9 (75mil)	0.142	3.6	0.484	12.3	141(210)				25
10C	14	41/0.26 (41/10.2mil)	1.9 (75mil)	0.142	3.6	0.713	18.1	299(445)				19
2C	12	65/0.254 (65/10mil)	2.4 (94mil)	0.161	4.1	0.465	11.8	121(180)	less than 5.45	more than 50	2000	45
3C	12	65/0.254 (65/10mil)	2.4 (94mil)	0.161	4.1	0.488	12.4	151(225)				38
4C	12	65/0.254 (65/10mil)	2.4 (94mil)	0.161	4.1	0.531	13.5	185(275)				34
2C	10	104/0.254 (104/10mil)	3.1 (122mil)	0.189	4.8	0.520	13.2	161(240)	less than 3.44	more than 50	2000	61
3C	10	104/0.254 (104/10mil)	3.1 (122mil)	0.189	4.8	0.547	13.9	205(305)				51
4C	10	104/0.254 (104/10mil)	3.1 (122mil)	0.189	4.8	0.598	15.2	259(385)				46
2C	8	7/24/0.254 (7/24/10mil)	4.2 (165mil)	0.299	7.6	0.740	18.8	292(435)	less than 2.41	more than 50	2500	79
3C	8	7/24/0.254 (7/24/10mil)	4.2 (165mil)	0.299	7.6	0.787	20.0	376(560)				67
4C	8	7/24/0.254 (7/24/10mil)	4.2 (165mil)	0.299	7.6	0.909	23.1	514(765)				60
2C	6	7/39/0.254 (7/39/10mil)	5.3 (209mil)	0.343	8.7	0.835	21.2	403(600)	less than 1.53	more than 50	2500	100
3C	6	7/39/0.254 (7/39/10mil)	5.3 (209mil)	0.343	8.7	0.925	23.5	558(830)				88
4C	6	7/39/0.254 (7/39/10mil)	5.3 (209mil)	0.343	8.7	1.016	25.8	706(1050)				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 JCS0168.

·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