

UE/STO-SB(N)/TC LF

For tray cable, race way and electronic equipment power supply code

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

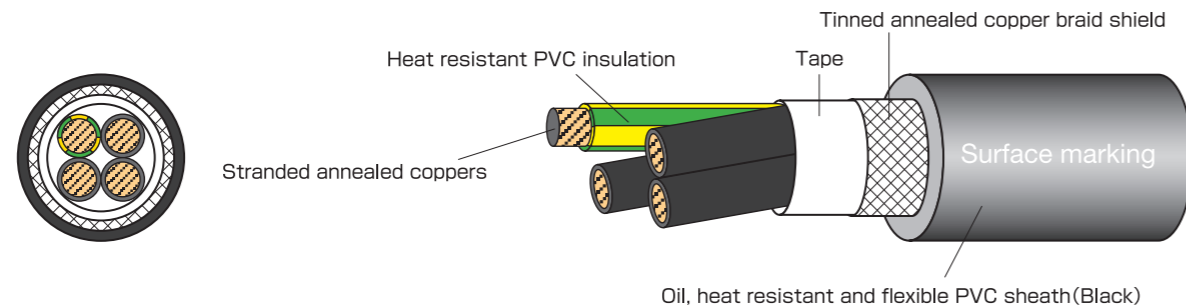
Application

- Multi cable for North America.
- Electric equipment cable with UL and cUL at 600V, 105°C. (Category QPOR, ZJCZ, ZKHZ, ZJCZ7)
- Obtaining UL Listed STO, TC and MTW, this cable compliants to NFPA 70 and 79.
- CE marking (TÜV recognition product). (※It is recognized as a cable with the cover based on H05VV-F.) (Certificate of TÜV No.J2050492)

Feature

- Heat resistant PVC material is used to insulation.
- Oil, heat resistant and Flexible PVC sheath material is used.
- It passes Vertical-Tray Flame Test of UL.

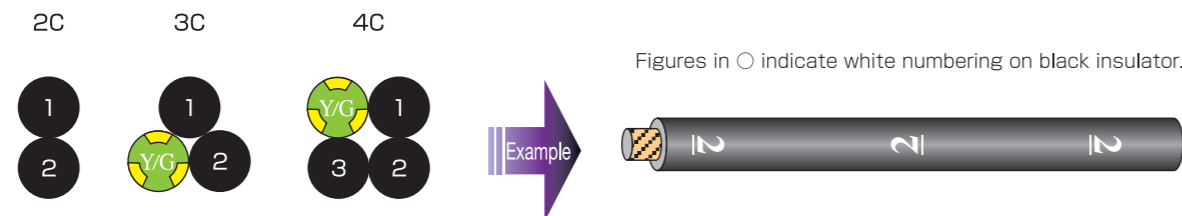
Construction figure



Surface marking

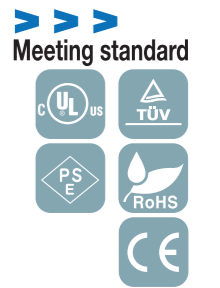
E209288(UL) TC 90°C DRY 75°C WET or MTW FLEXING VW-1 or STO SHIELDED 105°C 600V VW-1 Line number X □ □ AWG
 c(UL) STO SHIELDED 105°C 600V Line number X □ □ AWG (○ ○ mm²) FT1 TAIYO △ CE 05VV-F 300/500V <PS>E ** LF R15

Identification



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

Certification	UL STO,cUL STO	UL TC	UL MTW	TÜV.CE marking	Electrical Appliance and Material Safety Law
Applicable standard	UL 62 CSA C22.2 No.49	UL 1277	UL 1063	EN50525-2-11	Departmental order to determine a technical standard of the electrical equipment
Official symbol	STO	TC	MTW	Equivalent of H05VV-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 62 CSA C22.2 No.49	UL 1277	UL 1063	EN60228	JIS C 3102
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)
	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (inch)	Overall diameter approx. (mm)	
2C	18 (0.824mm)	33/0.18 (33/7.1mil)	1.2 (47mil)	0.114	2.9	0.394	10.0	87(130)
3C						0.409	10.4	97(145)
4C	16 (1.31mm)	53/0.18 (53/7.1mil)	1.5 (59mil)	0.126	3.2	0.441	11.2	114(170)
2C						0.417	10.6	97(145)
3C	14 (2.08mm)	84/0.18 (84/7.1mil)	1.9 (75mil)	0.173	4.4	0.441	11.2	118(175)
4C						0.472	12.0	138(205)
2C	12 (3.31mm)	65/0.254 (65/10mil)	2.4 (94mil)	0.193	4.9	0.559	14.2	168(250)
3C						0.587	14.9	195(290)
4C	12 (3.31mm)	65/0.254 (65/10mil)	2.4 (94mil)	0.193	4.9	0.634	16.1	239(355)
2C						0.634	16.1	225(335)
3C	12 (3.31mm)	65/0.254 (65/10mil)	2.4 (94mil)	0.193	4.9	0.665	16.9	265(395)
4C						0.713	18.1	316(470)

※3, 4 core has the [Y/G] earth cable of an equal size.

Allowable ampacity

- Allowable current of this catalog NFPA70 Table 400.5(A)(1) STO ambient temperature 30°C.
- For the current correction factor, please refer to the P274.
- For please confirm the NFPA70(National Electrical cord) and NFPA79(Electrical Standard for Industrial Machinery) more use.

Electrical property

Size (AWG)	Conductor resistance (Ω/km20°C)	Insulation resistance (MΩ.km20°C)	*1 Electrical strength (V/1min.)	*2 Allowable ampacity (A)	
				a	b
18	less than 22.1	more than 60	2000	7	10
16	less than 13.7	more than 60	2000	10	13
14	less than 8.64	more than 60	3000	15	18
12	less than 5.42	more than 50	3000	20	25

- *1 The examination of 2000V/5 minute besides the withstand voltage test on the UL standard and the CSA standard that has been described to the top is applied.
- *2 Allowable ampacity By National Electrical Code(NEC)
 - a: Apply to 3-conductor cords and other multiconductor cords connected to utilization equipment so that only 3 conductors are current-carrying.
 - b: Apply to 2-conductor cords and other multiconductor cords connected to utilization equipment so that only 2 conductors are current-carrying.

Standard sales length

100m