

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.

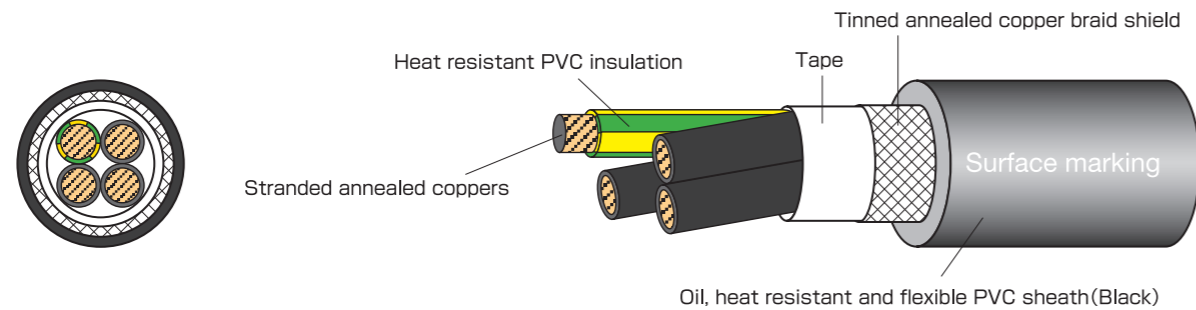
Application

- Multi cable for North America and EU.
- 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.

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

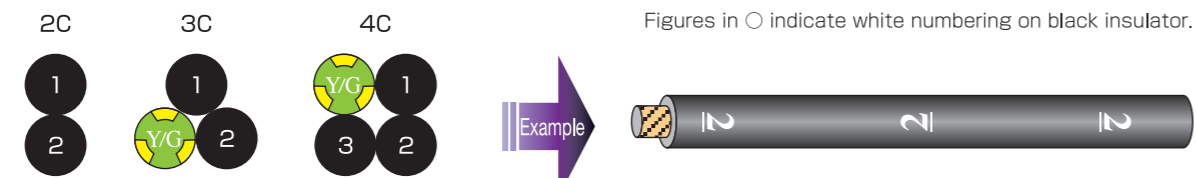
(1) 10AWG cables

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

(2) 8AWG~6AWG cables

E209288 (UL) TC 90°C DRY 75°C WET or MTW VW-1 or STO SHIELDED 105°C 600V VW-1 Line number × □ □ AWG
c (UL) STO SHIELDED 105°C 600V Line number × □ □ AWG (○ ○ mm²) FT1 TAIYO CE 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	CE marking	Electrical Appliance and Material Safety Law (Only 10 AWG)	Electrical Appliance and Material Safety Law (8~6AWG)
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	Departmental order to determine a technical standard of the electrical equipment
Official symbol	STO	TC	MTW	Equivalent of H05VV-F	Vinyl cab tire cord	Vinyl cab tire cord
Voltage rating	600V	600V	600V	300/500V	300V	600V
Temperature rating	105°C	DRY90°C WET75°C	DRY90°C WET60°C	70°C	60°C	60°C
Conductor	UL 62 CSA C22.2 No.49	UL 1277	UL 1063	EN60228	JIS C 3102	JIS C 3102
Flame rating	VW-1, FT1	Vertical-Tray Flame Test	VW-1	EN50264-2-1	JIS C 3005 4.26.2 b)	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	10 (5.26mm)	104/0.254 (104/10mil)	3.10 (122mil)	0.220	5.6	0.689	17.5	276(410)		
3C								0.724	18.4	333(495)
4C								0.780	19.8	403(600)
2C	8 (8.37mm)	7/15/0.32 (7/15/12.6mil)	4.20 (165mil)	0.299	7.6	0.902	22.9	470(700)		
3C								0.949	24.1	564(840)
4C								1.055	26.8	712(1060)
3C	6 (13.3mm)	7/24/0.32 (7/24/12.6mil)	5.30 (209mil)	0.343	8.7	1.071	27.2	759(1130)		
4C								1.193	30.3	954(1420)

※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
10	less than 3.42	more than 50	3000	25	30
8	less than 2.14	more than 50	4000	35	40
6	less than 1.34	more than 50	4000	45	55

- *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