

# TC LF TC-ER LF

## For tray cable and race way electronic equipment cable

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

>>> Meeting standard



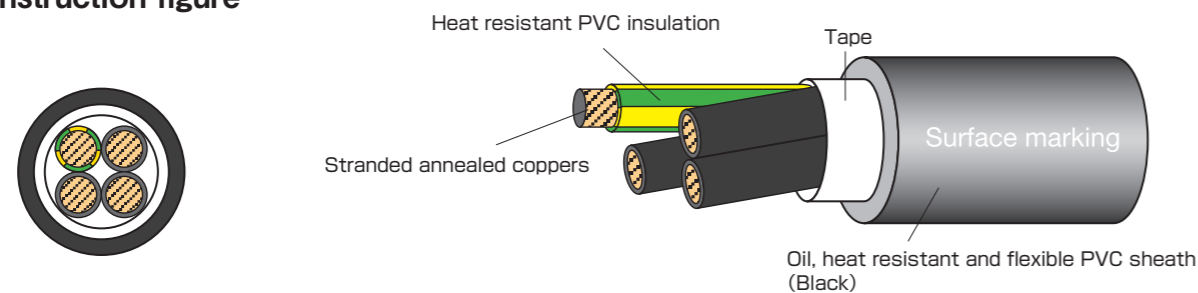
### > Application

- It is possible to use it also for WET LOCATION.
- Electric equipment cable with UL at 600V,90°C.(Category QPOR)
- Obtaining UL Listed TC, this cable compliants to NFPA70,79.
- Suits the TC-ER attestation.  
※2core product is excluded.(not"-ER")

### > 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

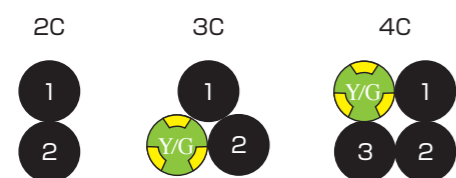
(1)2 cores TC



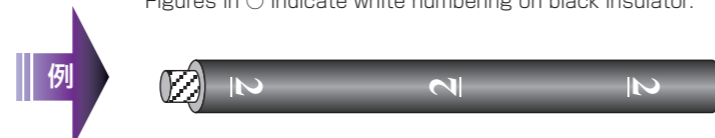
(2)3 cores or more TC-ER



### > Identification



Figures in ○ indicate white numbering on black insulator.



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

Certification	UL TC
Applicable standard	UL 1277
Official symbol	TC
Voltage rating	600V
Temperature rating	DRY90°C WET75°C
Conductor	UL 1277
Flame rating	Vertical-Tray Flame Test

### > Construction table

No. of cores	Conductor			Heat resistant PVC insulation		Oil heat-resistant flexible-PVP 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)	Outside diameter approx.(inch)	Outside diameter approx.(mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	
2C	18	33/0.18	1.2	0.114	2.9	0.335	8.5	54(80)	less than 22.2	more than 60	2000	14
3C	(0.823mm)	(33/7.1mil)	(47mil)									
4C												
2C	16	53/0.18	1.5	0.126	3.2	0.358	9.1	64(95)	less than 13.9	more than 60	2000	18
3C	(1.30mm)	(53/7.1mil)	(59mil)									
4C												
2C	14	84/0.18	1.9	0.142	3.6	0.390	9.9	81(120)	less than 8.78	more than 60	2000	25
3C	(2.08mm)	(84/7.1mil)	(75mil)									
4C												
2C	12	65/0.254	2.4	0.161	4.1	0.429	10.9	104(155)	less than 5.64	more than 50	2000	30
3C	(3.30mm)	(65/10mil)	(94mil)									
4C												
2C	10	104/0.254	3.1	0.189	4.8	0.484	12.3	144(215)	less than 3.54	more than 50	2000	40
3C	(5.26mm)	(104/10mil)	(122mil)									
4C												
3C	8	7/15/0.32	4.2	0.264	6.7	0.709	18.0	326(485)	less than 2.22	more than 50	2000	55
4C	(8.36mm)	(7/15/12.6mil)	(165mil)									
3C	6	7/24/0.32	5.3									
4C	(13.3mm)	(7/15/12.6mil)	(209mil)	0.343	8.7	0.925	23.5	548(815)	less than 1.41	more than 50	2000	75
3C	4	7/38/0.32	6.6									
4C	(21.1mm)	(7/60/12.6mil)	(260mil)									
3C	2	7/60/0.32	8.3	0.343	10.0	1.039	26.4	753(1120)	less than 0.890	more than 50	2000	95
4C												
3C												
4C	(33.6mm)	(7/60/12.6mil)	(327mil)		11.9	1.138	28.9	954(1420)	less than 0.565	more than 40	2000	130

※3 cores or more has the [Y/G] earth cable of an equal size.

### > Allowable ampacity

- Allowable current of this catalog NFPA70 Table 310.15(B)(16) rated temperature 90°Cambient temperature 30°C is the value of the current-carrying conductor of up to three.
- 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.

### > Standard sales length

100m  
(Sale by cutting short length is available for 8AWG-500MCM products. Please contact us which sizes are available.)