

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



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

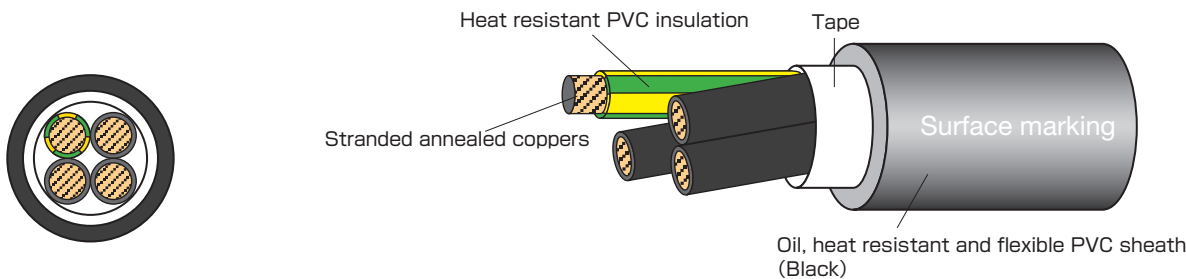
> Application

- It is possible to use it also for WET LOCATION.
- Electric equipment cable with UL at 600V,90°C.(Category QP0R)
- 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



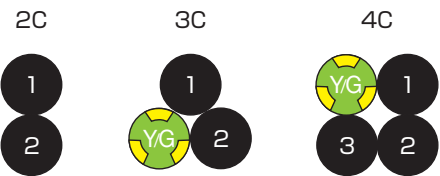
> Surface marking

(1)2 cores TC
E209288 (UL) TC 600V 90°C DRY 75°C WET 2×□□AWG TAIYO LF R15

(2)3 cores or more TC-ER
E209288 (UL) TC-ER 600V 90°C DRY 75°C WET No. of cores×□□AWG TAIYO LF R15

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

> Identification



Figures in ○ indicate white numbering on black insulation.

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

> 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	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)			0.350	8.9	64(95)				
4C						0.382	9.7	77(115)				
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)			0.378	9.6	77(115)				
4C						0.409	10.4	94(140)				
2C	14	41/0.254	1.9	0.142	3.6	0.390	9.9	81(120)	less than 8.78	more than 60	2000	25
3C	(2.08mm)	(41/10mil)	(75mil)			0.413	10.5	97(145)				
4C						0.449	11.4	124(185)				
2C	12	65/0.254	2.4	0.164	4.1	0.429	10.9	104(155)	less than 5.64	more than 50	2000	30
3C	(3.30mm)	(65/10mil)	(94mil)			0.453	11.5	134(200)				
4C						0.496	12.6	168(250)				
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)			0.512	13.0	188(280)				
4C						0.598	15.2	259(385)				
3C	8	7/24/0.254	4.2	0.264	6.7	0.709	18.0	329(490)	less than 2.22	more than 50	2000	55
4C	(8.36mm)	(7/24/10mil)	(165mil)			0.780	19.8	417(620)				
3C	6	7/39/0.254	5.3	0.343	8.7	0.925	23.5	551(820)				
4C	(13.3mm)	(7/39/10mil)	(209mil)			1.016	25.8	692(1030)	less than 1.41	more than 50	2000	75
3C	4	7/61/0.254	6.6	0.394	10.0	1.039	26.4	753(1120)				
4C	(21.1mm)	(7/61/10mil)	(260mil)			1.138	28.9	961(1430)				
3C	2	19/35/0.254	8.4	0.475	12.0	1.209	30.7	1075(1600)	less than 0.890	more than 40	2000	130
4C	(33.6mm)	(19/35/10mil)	(327mil)			1.331	33.8	1371(2040)				

※Partial conductor construction is changed from production in August 2022.
For details,please contact our sales representative or the place of purchase.

※[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 Technical document page.

·For please confirm the NFPA70(National Electrical cord) and NFPA79(Electrical Standard for Industrial Machinery) more use.

> Standard sales length

100m
(Sales by short length is available for large sizes. Please contact us which sizes are available.)