FURUKAWA ELECTRIC

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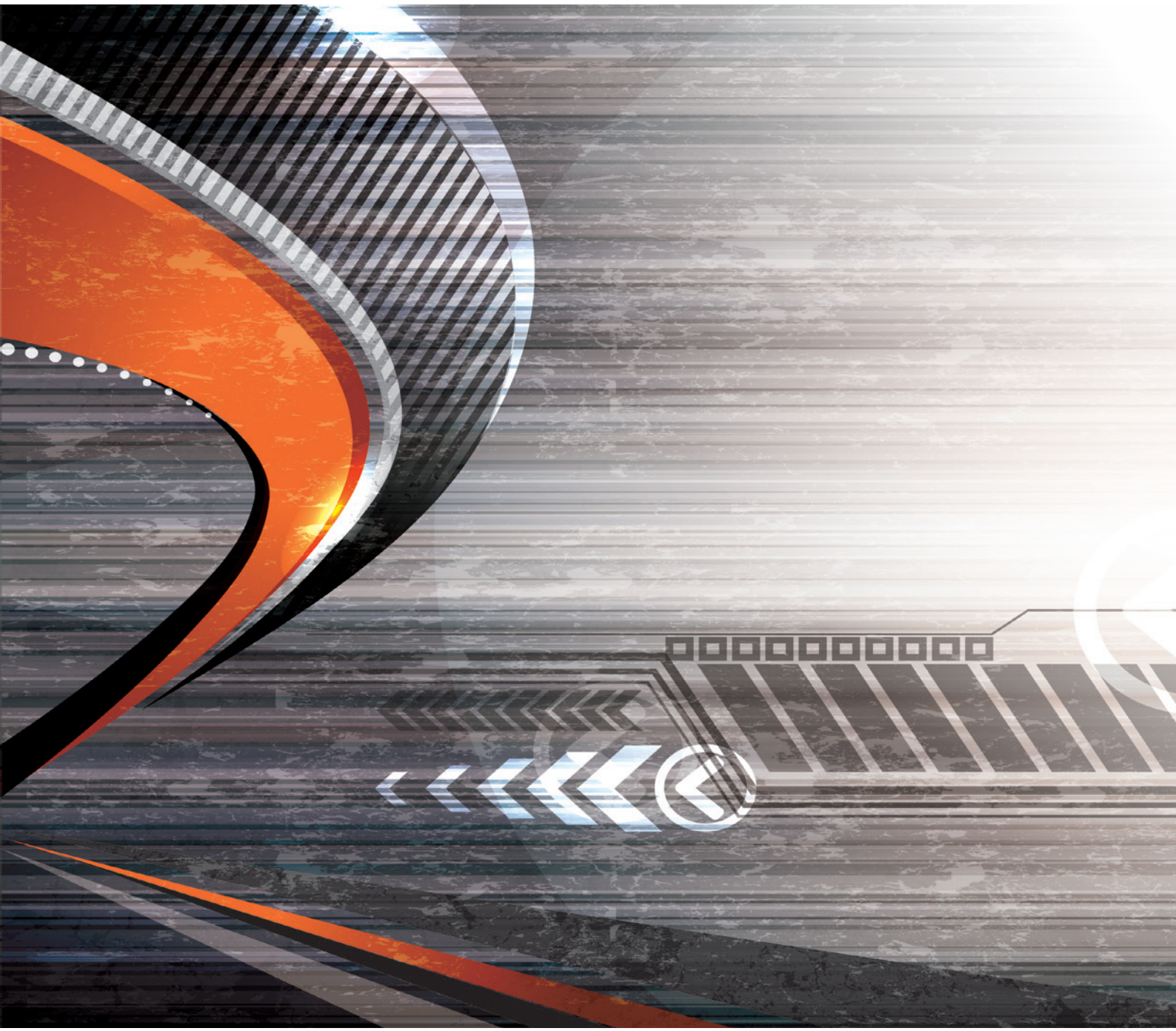
Rubber Cabtyre Cable

TRACAB



FURUKAWA ELECTRIC INDUSTRIAL CABLE CO., LTD.

Superior resistance to bending, tension, and twisting,

Rubber cabtyre cable for transport is used for a variety of purposes, such as providing low/high voltage power to large loading/unloading transfer machinery in locations including harbor piers and ironwork material yards, as well as controlling all kinds of electronic devices.
Under site environments and use conditions of such transfer machinery, resistant to bending, tension, and twisting is required.
Furukawa Electric provides a range of rubber cabtyre cables for transport mechanisms that offer characteristics to suit each application.

Meaning of symbols... TC: Travelling Cabtyre, R: Round, F: Flat, B: Bend resistance,
H: Tensile force resistance, T: Twist resistance

For curtain use

For fixed wiring and curtain use

2TC Light (2PNCT)

TC-RB (PNCT)

TC-FB

This multifunction general-use cable offers improved bending characteristics over general-use 2PNCT rubber cabtyre cable. In addition to fixed wiring, it is well-suited for curtain applications.

For applications requiring bending resistance

Caterpillar/carrier drum method, etc.

TC-RB

This cable has been designed to reduce the strain on the conductor when the cable is bent, to give it a long bending life.

with high reliability and product life

Rubber Cabtyre Cable
TRACAB

For applications requiring tension resistance

Horizontal reels, etc.

TC-RH
TC-FH

Built to withstand tension and stroking, and prevent twisting, this series is well-suited to reel winding.

TC-RH (1) Offers more freedom in the winding direction than flat cables.
(2) Built to withstand tension and stroking, this series is well-suited to reel winding.

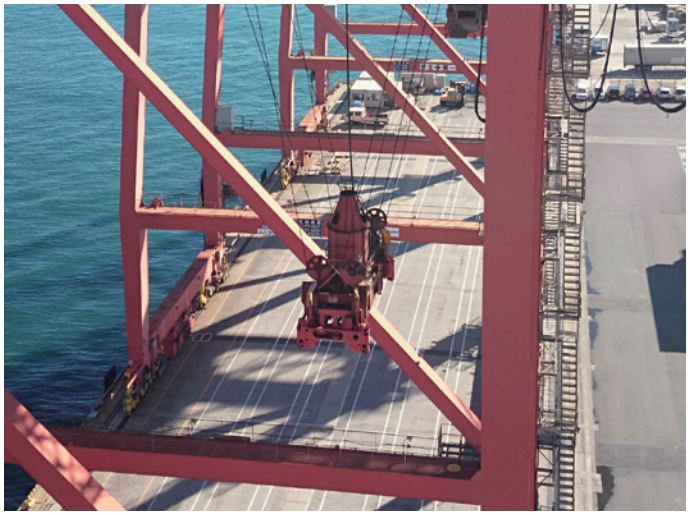
TC-FH (1) Allows for long cables to be wound compactly.
(2) Large size and multicore cables also supported.

For applications requiring twisting resistance

Basket method

TC-RT

This cable was designed to absorb stress, so that the conductor does not expand or contract when twisting force is applied to the cable.



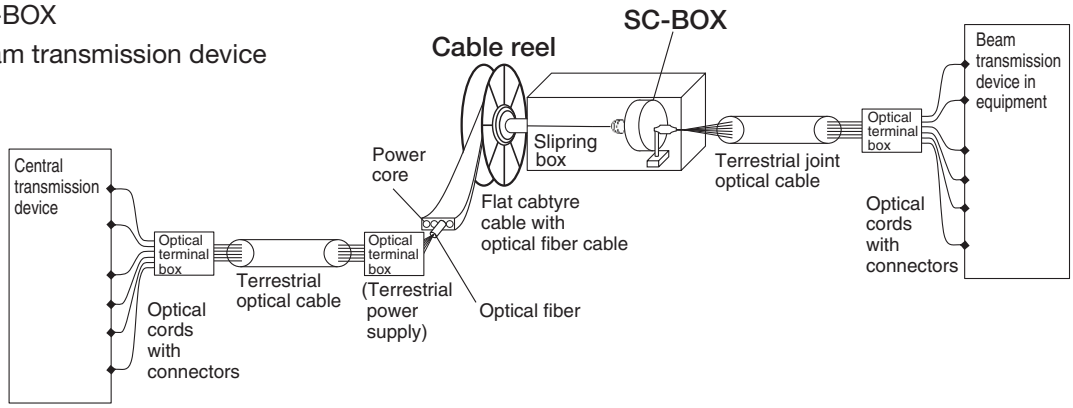
Cabtyre cable with optical fiber cable system

The cabtyre cable with optical fiber cable system combines cabtyre cable (TRACAB) for transport and cabtyre cable for signaling. This system integrally realizes elimination of control facilities such as cable reels as well as expansion of control signal-related transfer capacity and theoretical improvement of transfer reliability.

Cabtyre cable with optical fiber cable

<Basic system structure>

(1) Cabtyre cable with optical fiber cable
(2) SC-BOX
(3) Beam transmission device



SC-BOX (optical rotary accumulator)

SC-BOX is a functional material that synchronizes with the slip rings in cable reel systems (such as for transfer machinery) that use cabtyre cable with optical fiber cable, and connects the optical fiber of the dormant and rotating sides with little loss.
Its structure features an FC connector to connect directly to optical fiber, and offers less connection loss and higher resistance to condensation and dust compared with optical components that use spatial transmission.

■ SC-BOX model list

Model	Specification
FH-SC-1	Optics 6 core 30 rotations
FH-SC-2	Optics 6 core 50 rotations
FH-SC-3	Optics 6 core 60 rotations
FH-SC-1N	Optics 9 core 30 rotations
FH-SC-2N	Optics 9 core 50 rotations
FH-SC-3N	Optics 9 core 60 rotations
FH-SC-1TV	Optics 12 core 30 rotations
FH-SC-2TV	Optics 12 core 50 rotations
FH-SC-3TV	Optics 12 core 60 rotations

〈SC-BOX model〉

FH−SC−□ ＊＊model

- Nothing — 6 core
- N — 9 core
- TV — 12 core

- 1 — Specification for 30 rotations
- 2 — Specification for 50 rotations
- 3 — Specification for 60 rotations

Special high voltage EP rubber-insulated cable

This special high voltage rubber cable offers electrical insulation comparable to that of cross-linked polyethylene cable, as well as superior resistance to mechanical properties. It is manufactured using three-layer coextrusion facilities and Furukawa Electric's own serial dry process cross-linked facilities (FSCV) for high reliability.

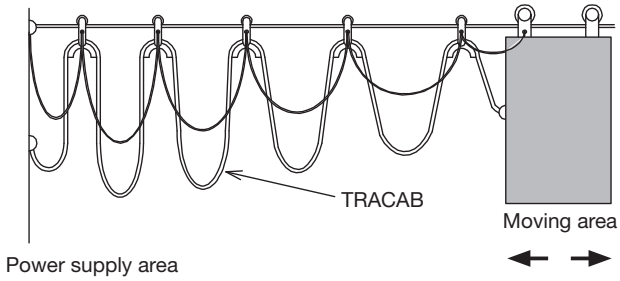
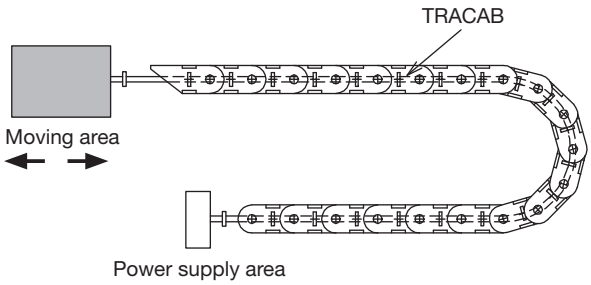
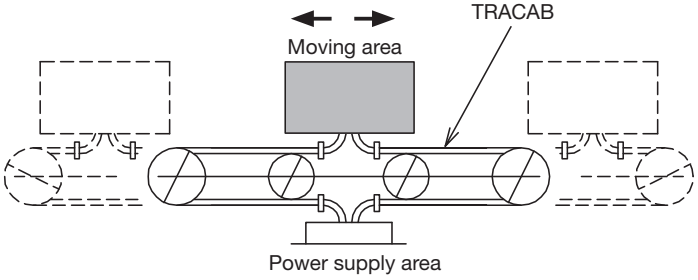
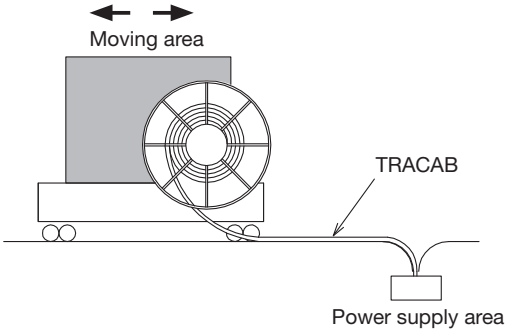
Special high voltage cable
18/30(36)kV W-POCT

Device direct connection terminal connection

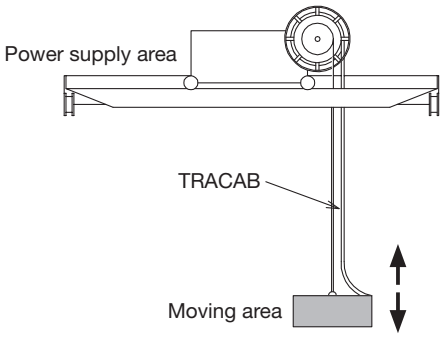
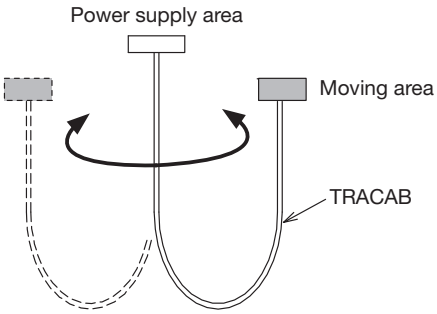
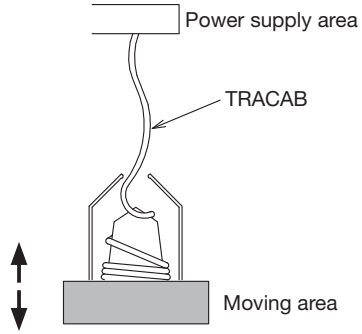
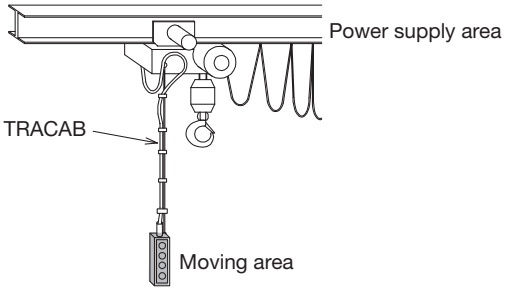
Application example: Electric power cables for wind power generators

Electric power cables used in wind power generators must withstand twisting, cold, and heat. The techniques we have developed in manufacturing cabtyre cable for transport allows us to provide highly-reliable cables that use EP rubber as their insulations. EP rubber has superior electrical properties and flexibility.

Cabtyre cable selection table

Usage pattern			Class 2	Class 3
For curtain use	Curtain		2TC Light (2PNCT) Structural table P12 Permissible current table P36	—
			2TC-RB Structural table P20 Permissible current table P37	3TC-RB Structural table P23 Permissible current table P37
			2TC-FB (cannot be used with coil curtains) Permissible current table P38	3TC-FB (cannot be used with coil curtains) Permissible current table P38
For applications requiring bending resistance	Caterpillar		2TC-RB Structural table P20 Permissible current table P37	3TC-RB Structural table P23 Permissible current table P37
	Carrier drum		2TC-RB Structural table P20 Permissible current table P37	3TC-RB Structural table P23 Permissible current table P37
For applications requiring tension resistance	Horizontal reel		2TC-RH Structural table P26 Permissible current table P37	3TC-RH Structural table P29 Permissible current table P37
			2TC-FH Structural table P32 Permissible current table P38	3TC-FH Structural table P33·34 Permissible current table P38

Please contact our company with any questions about selecting cable.

Usage pattern			Class 2	Class 3
For applications requiring tension resistance	Vertical reel		2TC-RH-L 2TC-RH-LR	3TC-RH-L 3TC-RH-LR
For applications requiring twisting resistance	Rotating (twisting)		2TC-RT-H	—
	Basket drop		2TC-RT-B (Elevating speed: under 50m per minute) 2TC-RT-T (Elevating speed: 50 to 140m per minute)	—
	Suspended (such as hoist crane operation)		2TC-RT-P	—

Please contact our company with any questions about selecting cable.

Safety precautions

Be sure to carefully read these safety precautions prior to using any products listed in this catalog.
Please contact our company with any questions or concerns.

- Do not exceed the rated voltage or permissible current. Doing so could cause burning or a fire.
- Be sure to ground the shielding.
- Observe the allowed tension and bending radius.
- When working to connect the high-voltage cable terminal, be sure to strip the outer semiconductive layer.

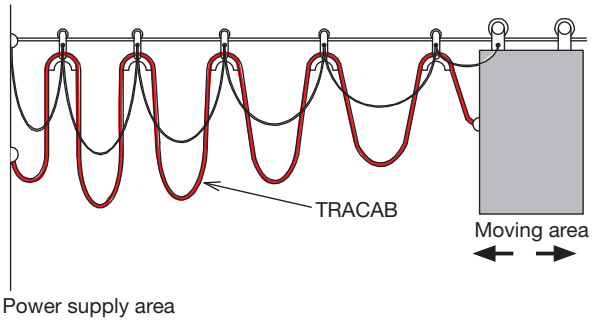
Usage precautions

Usage precautions for curtain method

- Set the allowable bending radius (R) of the cable as in the table below. If there are individual specifications and a bending radius is specified, the value in the specifications takes precedence.

Type	Low voltage cable	Remarks
Round cable	R ≧ 6d	d: Cable maximum outer diameter
Flat cable	R ≧ 7.5d	d: Cable maximum minor diameter

- When laying multiple cables, bundle them together so that they are lined up horizontally.
- Fix the cable bundle in place so that it cannot be rotated.
- Do not lay cables twisted.
- Use a hanger or the like and take the bending radius into account, so that bending/pulling force is not concentrated in the fixed portion of the cable terminal during cable transfer.
- Connect cable bundles with roped wire, chain or the like and implement a tension member so that tension is not applied to cables.
- The length of roped wire, chain, or the like should be 0.9 times that of the cable or less.

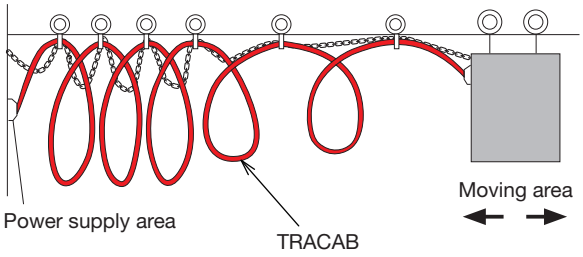


Usage precautions for coil curtain method

- Set the allowable bending radius (R) of the cable as in the table below. If there are individual specifications and a bending radius is specified, the value in the specifications takes precedence.

Type	Low voltage cable	Remarks
Round cable	R ≧ 7.5d	d: Cable maximum outer diameter

- If cable will be suspended in a spiral state, the hanger must be allowed to rotate.
- In this case, when the cable is pulled it will be twisted. The cable twisting direction should be set in the direction the twist of the cable core tightens.
- Provide plenty of slack in the cable length.
- When running cable through a pulley, wire the cable so that it is not twisted, or not tightened more than necessary.

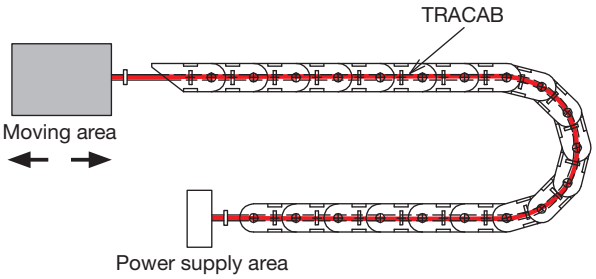


Usage precautions for caterpillar method

- Set the allowable bending radius (R) of the cable as in the table below. If there are individual specifications and a bending radius is specified, the value in the specifications takes precedence.

Type	Low voltage cable	High voltage cable	Remarks
Round cable	R ≧ 7.5d	R ≧ 15d	d: Cable maximum outer diameter

- When running cable through a caterpillar threshold or aperture opening, pass a single cable through a single hole. Do not lay multiple cables.
- Place a divider plate between cables to prevent interference, depending on the situation.
- Make sure to fix the cable in place at the feeding and receiving points, so that the internal wire core does not move.
- Bundle cables strongly. Otherwise, the cables could twist or buckle (disconnect).
- Provide enough slack for the straight line distance between the terminal fixture area and the area where the cable will be bent.

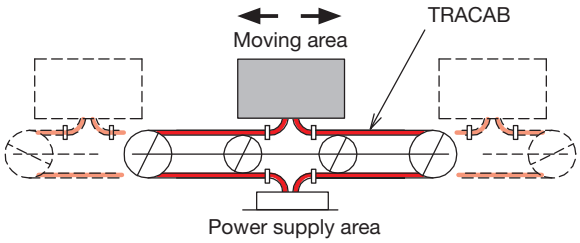


Usage precautions for carrier drum (cableveyor) method

- Set the allowable bending radius (R) of the cable as shown below. If there are individual specifications and a bending radius is specified, the value in the specifications takes precedence.

Type	Low voltage cable	High voltage cable	Remarks
Round cable	R ≧ 7.5d	R ≧ 15d	d: Cable maximum outer diameter

- Lay cables so that they are not twisted.
- Apply moderate tension to cables when laying them. When laying multiple cables, lay each cable with around the same amount of slack.
- Bundle cables strongly. Otherwise, the cables could twist or buckle (disconnect).

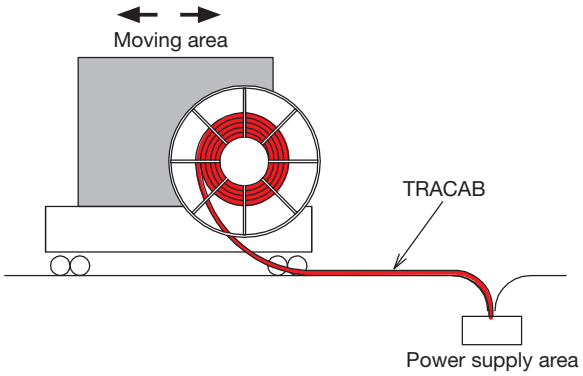


Usage precautions when using horizontal reel method

- Set the allowable bending radius (R) of the cable as shown below. If there are individual specifications and a bending radius is specified, the value in the specifications takes precedence.

Type	Low voltage cable	High voltage cable	Remarks
Round cable	R ≧ 10d	R ≧ 15d	d: Cable maximum outer diameter
Flat cable	R ≧ 10d	R ≧ 15d	d: Cable maximum minor diameter

- The lateral pressure applied to cables should be 4.9kN/m (500kgf/m) or less.
- Do not wind cables when they are twisted.
- Also be sure to take the allowable bending radius into account for the part of the central power supply area that folds back.
- When adding a cable guide roller to the winding reel area, take the allowable bending radius into account.
- If the reel is winded in or out with the reference point (straight line) misaligned, the cable could become twisted.

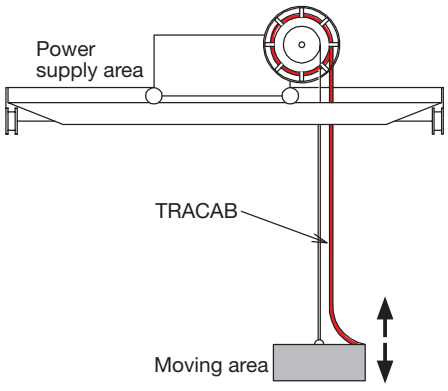


Usage precautions when using vertical reel method

- Set the allowable bending radius (R) of the cable as shown below. If there are individual specifications and a bending radius is specified, the value in the specifications takes precedence.

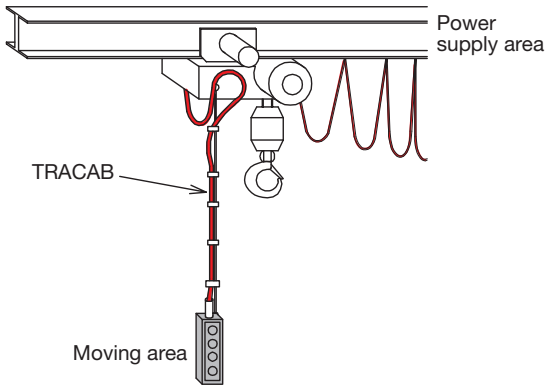
Type	Low voltage cable	Remarks
Round cable	R ≧ 10d	d: Cable maximum outer diameter

- When winding a cable in or out, the cable becomes subject to its own weight in the vertical reel area, and friction could cause the cable to twist. Applying a lubricant such as grease to the surface of the cable can prevent it from twisting.
- Please contact our company for any special applications (when conditions such as the number of rotations or tension are severe).



Usage precautions for pendant method

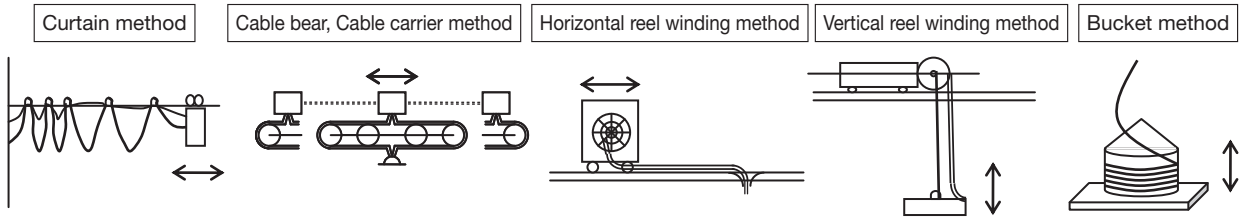
- The allowable bending radius is 7.5d for round low voltage cables. (d: Cable maximum outer diameter)
- Hang a chain from the control button, and make sure no tension is applied to the cable.
- Apply protection to the area the chain is installed on the control button, and make sure the cable is not bent at the affected area.
- Please contact our company for any special applications.



Cabtyre Cable Specification Survey Sheet

Date:
Name of sender:

Since the life of the cabtyre cable greatly depends on the use conditions, product type selection is very important.
In order to provide optimum products to our customers, we need much more information.
In case of an inquiry, please write the following information and contact us.

	Question	Selection
1	Voltage	600V · 3300V · 6600V
2	Number of cores × size (mm^2) When multiple, follow with +	
3	Shield	(Yes · No) (Copper · Iron · Semiconductive) (Each core · Batch · Each pair)
4	Shape Grade	(Round · Flat) (Class 2 · Class 3)
5	For general purpose or moving ? Note : General:temporary, (semi) fixed Moving : continuous moving	(General · Moving)
6	In case of moving : What is the using method ? (See Relevant product types by application)	Curtain method · Horizontal reel winding method Cable bear method · Cable carrier method Vertical reel winding method · Bucket method Other ( )
6		
7	Other information : As much as you know. Write special instructions if any	Bending radius : mm Tension : kg Moving speed : m/min. Outside diameter constraint : mm or less Moving frequency : go-return times/day In case of bucket method Lifting speed : m/min. Traverse motion speed : m/min. Lift : m
8	Product name: Is it specified or selected from the following ?	(Specified · Selected) ( ) ← Product name

(Relevant types by application)

•Curtain method	(round type) 2TC-RB 3TC-RB (flat type) 2TC-FB 3TC-FB
•Cable bear method	(round type) 2TC-RB 3TC-RB
•Cable carrier method	(round type) 2TC-RB 3TC-RB
•Horizontal reel method	(round type) 2TC-RH 3TC-RH (flat type) 2TC-FH 3TC-FH
•Vertical reel method	(round type) 2TC-RH-L (R) 3TC-RH-L (R)
•Bucket method	(round type) 2TC-RT-B (lifting speed 50m/min. or lower)
•Bucket method	(round type) 2TC-RT-T (lifting speed over 50m/min.)
•Simple twisting	(round type) 2TC-RT-H 3TC-RT-H
•Pendant method	(round type) 2TC-RT-P
•Heat resisting	(round type) KKCT

Structural table

For low voltage power

600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 2TC Light (600V 2PNCT)

Compliance standards

JIS C 3327

Features

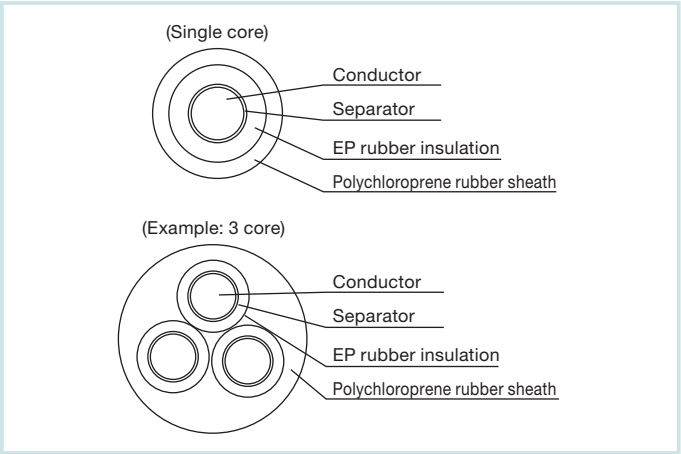
- General-use cabtyre cables
- Cabtyre cables for curtain applications

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(2 core) Black, white (3 core) Black, white, red (4 core) Black, white, red, green (5 core) Black, white, red, green, yellow (6 core) Black, white, red, green, yellow, blue (7 or higher) Based on combination of 6 colors.



2TC Light (2PNCT) 1.25 to 325mm² (single core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
1	1.25	50/0.18	1.5	0.8	1.5	6.2	7.2	55	15.5	3000	500
	2	37/0.26	1.8	0.8	1.5	6.5	7.5	65	9.91	3000	500
	3.5	45/0.32	2.5	0.8	1.6	7.4	8.4	90	5.38	3000	400
	5.5	70/0.32	3.1	1.0	1.6	8.4	9.4	125	3.46	3000	400
	8	50/0.45	3.7	1.0	1.7	9.2	10.2	155	2.45	3000	400
	14	88/0.45	4.9	1.0	1.8	10.7	11.7	235	1.39	3000	300
	22	7/20/0.45	6.7	1.2	1.9	13.1	14.1	360	0.892	3000	300
	(30)	7/27/0.45	8.1	1.2	2.0	14.6	15.6	460	0.661	3000	300
	38	7/34/0.45	9.1	1.2	2.1	15.8	16.8	555	0.525	3000	200
	(50)	19/16/0.45	10.0	1.5	2.2	17.6	18.6	690	0.411	3000	200
	60	19/20/0.45	11.2	1.5	2.3	19.1	21	840	0.329	3000	200
	(80)	19/27/0.45	13.0	2.0	2.5	23	24	1140	0.243	3000	200
	100	19/34/0.45	14.6	2.0	2.6	25	26	1380	0.193	3000	200
	(125)	19/42/0.45	16.3	2.0	2.7	26	28	1660	0.156	3000	200
	150	27/34/0.45	17.7	2.0	2.8	28	29	1860	0.136	3000	200
	200	37/34/0.45	20.0	2.5	3.0	32	34	2540	0.0993	3000	200
	250	37/42/0.45	22.0	2.5	3.2	34	36	3070	0.0803	3000	200
	325	37/55/0.45	25.4	2.5	3.4	38	40	3910	0.0614	3000	200

2TC Light (2PNCT) 0.75 to 150mm² (2 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
2	0.75	30/0.18	1.1	0.8	1.7	9.0	10.0	115	26.6	3000	500
	1.25	50/0.18	1.5	0.8	1.7	9.8	10.8	140	16.0	3000	500
	2	37/0.26	1.8	0.8	1.8	10.6	11.6	170	10.2	3000	500
	3.5	45/0.32	2.5	0.8	1.9	12.2	13.2	235	5.54	3000	400
	5.5	70/0.32	3.1	1.0	2.0	14.4	15.4	335	3.56	3000	400
	8	50/0.45	3.7	1.0	2.1	15.8	16.8	420	2.52	3000	400
	14	88/0.45	4.9	1.0	2.2	18.6	19.6	665	1.43	3000	300
	22	7/20/0.45	6.7	1.2	2.6	24	25	1020	0.919	3000	300
	(30)	7/27/0.45	8.1	1.2	2.7	27	28	1270	0.681	3000	300
	38	7/34/0.45	9.1	1.2	2.9	29	31	1540	0.541	3000	200
	(50)	19/16/0.45	10.0	1.5	3.1	33	35	1940	0.423	3000	200
	60	19/20/0.45	11.2	1.5	3.3	36	38	2350	0.339	3000	200
	(80)	19/27/0.45	13.0	2.0	3.6	42	44	3210	0.250	3000	200
	100	19/34/0.45	14.7	2.0	3.9	46	49	3920	0.199	3000	200
	(125)	19/42/0.45	16.3	2.0	4.0	50	52	4650	0.161	3000	200
	150	27/34/0.45	17.7	2.0	4.3	53	56	5310	0.140	3000	200

2TC Light (2PNCT) 0.75 to 150mm² (3 core)

3	0.75	30/0.18	1.1	0.8	1.7	9.4	10.4	125	26.6	3000	500
	1.25	50/0.18	1.5	0.8	1.8	10.5	11.5	160	16.0	3000	500
	2	37/0.26	1.8	0.8	1.8	11.1	12.1	195	10.2	3000	500
	3.5	45/0.32	2.5	0.8	1.9	12.9	13.9	280	5.54	3000	400
	5.5	70/0.32	3.1	1.0	2.0	15.2	16.2	400	3.56	3000	400
	8	50/0.45	3.7	1.0	2.1	16.7	17.7	505	2.52	3000	400
	14	88/0.45	4.9	1.0	2.3	19.9	20.9	825	1.43	3000	300
	22	7/20/0.45	6.7	1.2	2.7	26	27	1270	0.919	3000	300
	(30)	7/27/0.45	8.1	1.2	2.8	29	30	1600	0.681	3000	300
	38	7/34/0.45	9.1	1.2	3.0	31	33	1950	0.541	3000	200
	(50)	19/16/0.45	10.0	1.5	3.2	35	37	2450	0.423	3000	200
	60	19/20/0.45	11.2	1.5	3.4	39	40	2980	0.339	3000	200
	(80)	19/27/0.45	13.0	2.0	3.8	45	48	4080	0.250	3000	200
	100	19/34/0.45	14.7	2.0	4.1	50	52	5000	0.199	3000	200
	(125)	19/42/0.45	16.3	2.0	4.2	53	56	5960	0.161	3000	200
	150	27/34/0.45	17.7	2.0	4.5	57	60	6810	0.140	3000	200

2TC Light (2PNCT) 0.75 to 100mm² (4 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
4	0.75	30/0.18	1.1	0.8	1.8	10.4	11.4	150	26.6	3000	500
	1.25	50/0.18	1.5	0.8	1.8	11.3	12.3	190	16.0	3000	500
	2	37/0.26	1.8	0.8	1.9	12.2	13.2	235	10.2	3000	500
	3.5	45/0.32	2.5	0.8	2.0	14.1	15.1	340	5.54	3000	400
	5.5	70/0.32	3.1	1.0	2.1	16.8	17.8	495	3.56	3000	400
	8	50/0.45	3.7	1.0	2.2	18.4	19.4	625	2.52	3000	400
	14	88/0.45	4.9	1.0	2.4	22	23	965	1.43	3000	300
	22	7/20/0.45	6.7	1.2	2.8	29	30	1590	0.919	3000	300
	(30)	7/27/0.45	8.1	1.2	3.0	32	34	2020	0.681	3000	300
	38	7/34/0.45	9.1	1.2	3.2	35	37	2460	0.541	3000	200
	(50)	19/16/0.45	10.0	1.5	3.4	39	41	3090	0.423	3000	200
	60	19/20/0.45	11.2	1.5	3.7	43	45	3790	0.339	3000	200
	(80)	19/27/0.45	13.0	2.0	4.1	50	53	5420	0.250	3000	200
	100	19/34/0.45	14.7	2.0	4.4	55	58	6350	0.199	3000	200

2TC Light (2PNCT) 1.25mm² (5 to 30 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
5	1.25	50/0.18	1.5	0.8	1.9	12.4	13.4	225	16.0	3000	500
6	1.25	50/0.18	1.5	0.8	1.9	13.4	14.4	260	16.0	3000	500
7	1.25	50/0.18	1.5	0.8	2.0	15.1	16.1	295	16.0	3000	500
8	1.25	50/0.18	1.5	0.8	2.1	16.3	17.3	340	16.0	3000	500
10	1.25	50/0.18	1.5	0.8	2.2	18.5	19.5	425	16.0	3000	500
12	1.25	50/0.18	1.5	0.8	2.2	18.2	19.2	455	16.0	3000	500
16	1.25	50/0.18	1.5	0.8	2.3	21	22	570	16.0	3000	500
20	1.25	50/0.18	1.5	0.8	2.5	23	24	705	16.0	3000	500
30	1.25	50/0.18	1.5	0.8	2.7	27	28	995	16.0	3000	500

2TC Light (2PNCT) 2mm² (5 to 30 core)

5	2	37/0.26	1.8	0.8	1.9	13.3	14.3	275	10.2	3000	500
6	2	37/0.26	1.8	0.8	2.0	14.5	15.5	325	10.2	3000	500
7	2	37/0.26	1.8	0.8	2.1	16.3	17.3	370	10.2	3000	500
8	2	37/0.26	1.8	0.8	2.2	17.5	18.5	425	10.2	3000	500
10	2	37/0.26	1.8	0.8	2.3	19.9	21	530	10.2	3000	500
12	2	37/0.26	1.8	0.8	2.3	19.6	21	575	10.2	3000	500
16	2	37/0.26	1.8	0.8	2.4	22	23	725	10.2	3000	500
20	2	37/0.26	1.8	0.8	2.6	25	26	900	10.2	3000	500
30	2	37/0.26	1.8	0.8	2.8	29	30	1280	10.2	3000	500

2TC Light (2PNCT) 3.5mm² (5 to 30 core)

5	3.5	45/0.32	2.5	0.8	2.1	15.5	16.5	410	5.54	3000	400
6	3.5	45/0.32	2.5	0.8	2.1	16.8	17.8	475	5.54	3000	400
7	3.5	45/0.32	2.5	0.8	2.3	19.0	20	550	5.54	3000	400
8	3.5	45/0.32	2.5	0.8	2.3	21	22	620	5.54	3000	400
10	3.5	45/0.32	2.5	0.8	2.5	24	25	790	5.54	3000	400
12	3.5	45/0.32	2.5	0.8	2.5	23	25	865	5.65	3000	400
16	3.5	45/0.32	2.5	0.8	2.6	26	27	1100	5.65	3000	400
20	3.5	45/0.32	2.5	0.8	2.8	29	30	1360	5.65	3000	400
30	3.5	45/0.32	2.5	0.8	3.1	34	36	1960	5.65	3000	400

* This page lists only some representative sizes. Please contact our company for other manufacturing sizes.

For low voltage power

600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable with shielding

2TC Light-SB (2PNCT-SB)

Compliance standards

JIS C 3327

Features

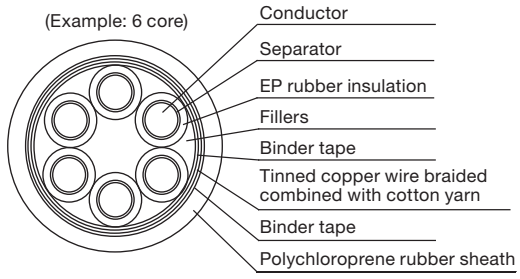
- General-use cabtyre cables
- Cabtyre cables for curtain applications

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Shielding: Tinned copper wire braided combined with cotton yarn
- Sheath: Polychloroprene rubber

Wire core identification

(2 core) Black, white (3 core) Black, white, red (4 core) Black, white, red, green (5 core) Black, white, red, green, yellow (6 core) Black, white, red, green, yellow, blue (7 or higher) Based on combination of 6 colors.



2TC Light-SB (w/ copper/cotton string mixed braid shielding)

2TC Light-SB (2PNCT-SB) 1.25 to 200mm² (Single core)

No. of wire cores	Conductor			EP rubber insulation thickness	Shielding strand diameter	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter							Maximum conductor resistance	Test voltage	Minimum insulation resistance
										20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
1	1.25	50/0.18	1.5	0.8	0.12	1.6	7.5	8.5	80	15.5	3000	500
	2	37/0.26	1.8	0.8	0.12	1.6	7.8	8.8	90	9.91	3000	500
	3.5	45/0.32	2.5	0.8	0.12	1.7	8.7	9.7	115	5.38	3000	400
	5.5	70/0.32	3.1	1.0	0.12	1.7	9.7	10.7	150	3.46	3000	400
	8	50/0.45	3.7	1.0	0.12	1.8	10.5	11.5	190	2.45	3000	400
	14	88/0.45	4.9	1.0	0.12	1.8	11.8	12.8	265	1.39	3000	300
	22	7/20/0.45	6.7	1.2	0.12	2.0	14.7	15.7	410	0.892	3000	300
	38	7/34/0.45	9.1	1.2	0.16	2.1	17.2	18.2	620	0.525	3000	200
	60	19/20/0.45	11.2	1.5	0.16	2.4	21	22	925	0.329	3000	200
	80	19/27/0.45	13.0	2.0	0.18	2.5	24	25	1240	0.243	3000	200
	100	19/34/0.45	14.7	2.0	0.18	2.7	26	28	1500	0.193	3000	200
	150	27/34/0.45	17.7	2.0	0.18	2.9	30	31	2020	0.136	3000	200
	200	37/34/0.45	20.0	2.5	0.18	3.1	34	35	2690	0.0993	3000	200

2TC Light-SB (2PNCT-SB) 0.75 to 38mm² (2 core)

2	0.75	30/0.18	1.1	0.8	0.12	1.8	10.8	11.8	140	27.0	3000	500
	1.25	50/0.18	1.5	0.8	0.12	1.8	11.6	12.6	165	16.2	3000	500
	2	37/0.26	1.8	0.8	0.12	1.9	12.4	13.4	195	10.4	3000	500
	3.5	45/0.32	2.5	0.8	0.12	2.0	14.0	15.0	260	5.65	3000	400
	5.5	70/0.32	3.1	1.0	0.16	2.1	16.4	17.4	365	3.63	3000	400
	8	50/0.45	3.7	1.0	0.16	2.2	17.8	18.8	445	2.57	3000	400
	14	88/0.45	4.9	1.0	0.16	2.4	21	22	640	1.46	3000	300
	22	7/20/0.45	6.7	1.2	0.18	2.7	27	28	1030	0.936	3000	300
	38	7/34/0.45	9.1	1.2	0.18	2.9	31	33	1490	0.541	3000	200

* This page lists only some representative sizes. Please contact our company for other manufacturing sizes.

2TC Light-SB (2PNCT-SB) 0.75 to 38mm² (3 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Shielding strand diameter	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter							Maximum conductor resistance	Test voltage	Minimum insulation resistance
										20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
3	0.75	30/0.18	1.1	0.8	0.12	1.8	11.2	12.2	155	27.0	3000	500
	1.25	50/0.18	1.5	0.8	0.12	1.9	12.3	13.3	195	16.2	3000	500
	2	37/0.26	1.8	0.8	0.12	1.9	12.9	13.9	225	10.4	3000	500
	3.5	45/0.32	2.5	0.8	0.12	2.0	14.7	15.7	310	5.65	3000	400
	5.5	70/0.32	3.1	1.0	0.16	2.2	17.4	18.4	450	3.63	3000	400
	8	50/0.45	3.7	1.0	0.16	2.3	18.9	19.9	560	2.57	3000	400
	14	88/0.45	4.9	1.0	0.16	2.4	22	23	815	1.46	3000	300
	22	7/20/0.45	6.7	1.2	0.18	2.8	29	30	1330	0.936	3000	300
	38	7/34/0.45	9.1	1.2	0.18	3.1	34	35	1970	0.541	3000	200

2TC Light-SB (2PNCT-SB) 0.75 to 38mm² (4 core)

4	0.75	30/0.18	1.1	0.8	0.12	1.9	12.2	13.2	185	27.0	3000	500
	1.25	50/0.18	1.5	0.8	0.12	1.9	13.1	14.1	225	16.2	3000	500
	2	37/0.26	1.8	0.8	0.12	2.0	14.0	15.0	270	10.4	3000	500
	3.5	45/0.32	2.5	0.8	0.16	2.1	16.1	17.1	390	5.65	3000	400
	5.5	70/0.32	3.1	1.0	0.16	2.3	19.0	20	555	3.63	3000	400
	8	50/0.45	3.7	1.0	0.16	2.4	21	22	690	2.57	3000	400
	14	88/0.45	4.9	1.0	0.18	2.6	25	26	1040	1.46	3000	300
	22	7/20/0.45	6.7	1.2	0.18	3.0	32	33	1690	0.936	3000	300
	38	7/34/0.45	9.1	1.2	0.18	3.3	37	39	2510	0.541	3000	200

2TC Light-SB (2PNCT-SB) 1.25mm² (5 to 30 core)

5	1.25	50/0.18	1.5	0.8	0.12	2.0	14.2	15.2	265	16.2	3000	500
6	1.25	50/0.18	1.5	0.8	0.12	2.1	15.6	16.6	320	16.2	3000	500
7	1.25	50/0.18	1.5	0.8	0.16	2.1	16.6	17.6	360	16.2	3000	500
8	1.25	50/0.18	1.5	0.8	0.16	2.2	17.8	18.8	410	16.2	3000	500
10	1.25	50/0.18	1.5	0.8	0.16	2.3	20.0	21	500	16.2	3000	500
12	1.25	50/0.18	1.5	0.8	0.16	2.3	19.7	21	525	16.2	3000	500
16	1.25	50/0.18	1.5	0.8	0.16	2.4	22	23	645	16.2	3000	500
20	1.25	50/0.18	1.5	0.8	0.18	2.6	25	26	800	16.2	3000	500
30	1.25	50/0.18	1.5	0.8	0.18	2.8	28	30	1100	16.2	3000	500

2TC Light-SB (2PNCT-SB) 2mm² (5 to 30 core)

5	2	37/0.26	1.8	0.8	0.16	2.1	15.5	16.5	335	10.4	3000	500
6	2	37/0.26	1.8	0.8	0.16	2.1	16.5	17.5	380	10.4	3000	500
7	2	37/0.26	1.8	0.8	0.16	2.2	17.8	18.8	440	10.4	3000	500
8	2	37/0.26	1.8	0.8	0.16	2.3	19.0	20	495	10.4	3000	500
10	2	37/0.26	1.8	0.8	0.16	2.4	22	23	575	10.4	3000	500
12	2	37/0.26	1.8	0.8	0.16	2.4	22	23	650	10.4	3000	500
16	2	37/0.26	1.8	0.8	0.18	2.5	24	25	815	10.4	3000	500
20	2	37/0.26	1.8	0.8	0.18	2.7	26	28	1000	10.4	3000	500
30	2	37/0.26	1.8	0.8	0.18	2.9	31	32	1390	10.4	3000	500

* This page lists only some representative sizes. Please contact our company for other manufacturing sizes.

2TC Light-SB (2PNCT-SB) 3.5mm^2 (5 to 30 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Shielding strand diameter	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter							Maximum conductor resistance	Test voltage	Minimum insulation resistance
										20℃		20℃
	mm^2	Wires/mm	Approx. mm	mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
5	3.5	45/0.32	2.5	0.8	0.16	2.2	17.5	18.5	465	5.65	3000	400
6	3.5	45/0.32	2.5	0.8	0.16	2.3	19.0	20	545	5.65	3000	400
7	3.5	45/0.32	2.5	0.8	0.16	2.3	21	22	620	5.65	3000	400
8	3.5	45/0.32	2.5	0.8	0.16	2.4	22	23	705	5.65	3000	400
10	3.5	45/0.32	2.5	0.8	0.18	2.6	25	27	895	5.65	3000	400
12	3.5	45/0.32	2.5	0.8	0.18	2.6	25	26	960	5.65	3000	400
16	3.5	45/0.32	2.5	0.8	0.18	2.7	27	29	1200	5.65	3000	400
20	3.5	45/0.32	2.5	0.8	0.18	2.9	30	32	1480	5.65	3000	400
30	3.5	45/0.32	2.5	0.8	0.18	3.2	36	37	2100	5.65	3000	400

* This page lists only some representative sizes. Please contact our company for other manufacturing sizes.

For high voltage power

Class 3 6600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable

6600V 3PNCT

Compliance standards

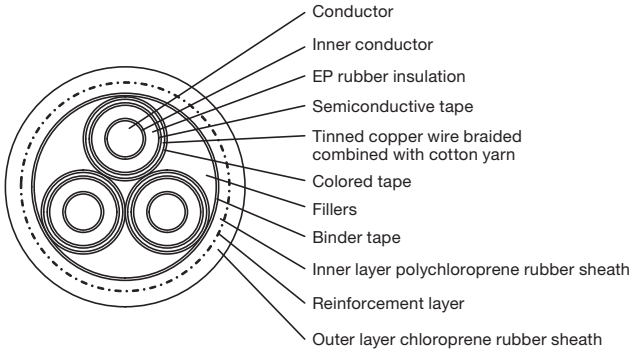
JIS C 4353

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Shielding: Tinned copper wire braided combined with cotton yarn
- Sheath: Polychloroprene rubber

Wire core identification

(3 core) White, red, blue



6600V 3PNCT 14 to 200mm² (single core)

No. of wire cores	Conductor			EP rubber insulation thickness*	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/10 min.	MΩ·km
1	14	88/0.45	4.9	5.0	3.8	25	26	770	1.39	17000	500
	22	7/20/0.45	7.0	5.0	4.0	28	29	960	0.892	17000	500
	38	7/34/0.45	9.1	5.0	4.1	30	31	1210	0.525	17000	500
	60	19/20/0.45	11.2	5.0	4.3	32	34	1550	0.329	17000	500
	100	19/34/0.45	14.7	5.0	4.5	36	38	2140	0.193	17000	500
	150	27/34/0.45	17.7	5.0	4.7	40	42	2720	0.136	17000	500
	200	37/34/0.45	20.0	5.5	4.9	43	46	3460	0.0993	17000	500

6600V 3PNCT 14 to 100mm² (3 core)

3	14	88/0.45	4.9	5.0	5.2	48	51	2490	1.43	17000	500
	22	7/20/0.45	7.0	5.0	5.5	53	56	3140	0.919	17000	500
	38	7/34/0.45	9.1	5.0	5.8	58	61	4020	0.541	17000	500
	60	19/20/0.45	11.2	5.0	6.1	64	67	5140	0.339	17000	500
	100	19/34/0.45	14.7	5.0	6.6	72	76	7160	0.199	17000	500

* Includes thickness of inner semiconductive layer.

For low voltage power

Class 2 600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 2TC-RB

Compliance standards

JIS C 3327

Features

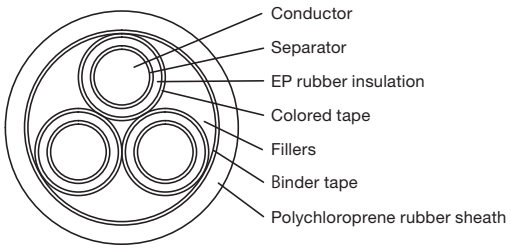
- This TRACAB product is well-suited for curtain, carrier drum, and cableveyor method transport.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(2 core) Black, white (3 core) Black, white, red (4 core) Black, white, red, green (5 core or higher) Black, white, red, black, black... tracer method



2TC-RB 1.25 to 325mm² (single core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ・km
1	1.25	50/0.18	1.5	0.8	1.6	7.0	8.0	65	15.5	3000	500
	2	37/0.26	1.8	0.8	1.6	7.5	8.5	75	9.91	3000	500
	3.5	45/0.32	2.5	0.8	1.6	8.0	9.0	100	5.38	3000	400
	5.5	70/0.32	3.1	1.0	1.7	9.5	10.5	135	3.46	3000	400
	8	50/0.45	3.7	1.0	1.7	10.0	11.0	165	2.45	3000	400
	14	88/0.45	4.9	1.0	1.8	11.5	12.5	240	1.39	3000	300
	22	7/20/0.45	7.0	1.2	2.0	14.5	15.5	375	0.892	3000	300
	30	7/27/0.45	8.1	1.2	2.0	15.5	16.5	470	0.661	3000	300
	38	7/34//0.45	9.1	1.2	2.1	16.5	17.5	565	0.525	3000	200
	50	19/16/0.45	10.0	1.5	2.2	18.5	19.5	705	0.411	3000	200
	60	19/20/0.45	11.2	1.5	2.3	20	21	850	0.329	3000	200
	80	19/27/0.45	13.0	2.0	2.5	23	24	1150	0.243	3000	300
	100	19/34/0.45	14.7	2.0	2.6	25	26	1400	0.193	3000	200
	125	19/42/0.45	16.3	2.0	2.7	27	28	1680	0.156	3000	200
	150	27/34/0.45	17.7	2.0	2.8	29	30	1900	0.136	3000	200
	200	37/34/0.45	20.0	2.5	3.0	33	34	2560	0.0993	3000	200
	250	37/42/0.45	22.0	2.5	3.2	35	37	3090	0.0803	3000	200
	325	37/55/0.45	25.4	2.5	3.4	39	41	3940	0.0614	3000	200

2TC-RB 1.25 to 200mm² (2 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance 20℃	Test voltage	Minimum insulation resistance 20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
2	1.25	50/0.18	1.5	0.8	1.8	11.0	12.0	135	16.0	3000	500
	2	37/0.26	1.8	0.8	1.8	11.5	12.5	155	10.2	3000	500
	3.5	45/0.32	2.5	0.8	1.9	13.0	14.0	215	5.54	3000	400
	5.5	70/0.32	3.1	1.0	2.0	15.5	16.5	305	3.63	3000	400
	8	50/0.45	3.7	1.0	2.2	18.0	19.0	415	2.57	3000	400
	14	88/0.45	4.9	1.0	2.4	21	22	605	1.46	3000	300
	22	7/20/0.45	7.0	1.2	2.7	27	28	960	0.937	3000	300
	30	7/27/0.45	8.1	1.2	2.8	29	30	1200	0.694	3000	300
	38	7/34/0.45	9.1	1.2	3.0	31	33	1450	0.551	3000	200
	50	19/16/0.45	10.0	1.5	3.2	35	37	1810	0.432	3000	200
	60	19/20/0.45	11.2	1.5	3.4	38	40	2180	0.345	3000	200
	80	19/27/0.45	13.0	2.0	3.7	44	46	2940	0.255	3000	300
	100	19/34/0.45	14.7	2.0	4.0	48	51	3590	0.203	3000	200
	125	19/42/0.45	16.3	2.0	4.2	52	54	4280	0.164	3000	200
	150	27/34/0.45	17.7	2.0	4.4	55	58	4850	0.143	3000	200
	200	37/34/0.45	20.0	2.5	4.8	63	66	6510	0.104	3000	200

2TC-RB 1.25 to 200mm² (3 core)

3	1.25	50/0.18	1.5	0.8	1.8	11.5	12.5	155	16.0	3000	500
	2	37/0.26	1.8	0.8	1.8	12.0	13.0	185	10.2	3000	500
	3.5	45/0.32	2.5	0.8	1.9	13.5	14.5	265	5.54	3000	400
	5.5	70/0.32	3.1	1.0	2.1	16.5	17.5	390	3.63	3000	400
	8	50/0.45	3.7	1.0	2.3	19.0	20	525	2.57	3000	400
	14	88/0.45	4.9	1.0	2.4	22	23	775	1.46	3000	300
	22	7/20/0.45	7.0	1.2	2.8	28	30	1250	0.937	3000	300
	30	7/27/0.45	8.1	1.2	3.0	31	33	1590	0.694	3000	300
	38	7/34/0.45	9.1	1.2	3.1	34	35	1910	0.551	3000	200
	50	19/16/0.45	10.0	1.5	3.3	37	39	2390	0.432	3000	200
	60	19/20/0.45	11.2	1.5	3.5	41	43	2900	0.345	3000	200
	80	19/27/0.45	13.0	2.0	3.9	47	50	3930	0.255	3000	300
	100	19/34/0.45	14.7	2.0	4.2	52	54	4810	0.203	3000	200
	125	19/42/0.45	16.3	2.0	4.4	56	58	5750	0.164	3000	200
	150	27/34/0.45	17.7	2.0	4.6	59	62	6520	0.143	3000	200
	200	37/34/0.45	20.0	2.5	5.1	68	71	8830	0.104	3000	200

2TC-RB 1.25 to 200mm² (4 core)

4	1.25	50/0.18	1.5	0.8	1.9	12.5	13.5	190	16.0	3000	500
	2	37/0.26	1.8	0.8	1.9	13.0	14.0	230	10.2	3000	500
	3.5	45/0.32	2.5	0.8	2.0	15.0	16.0	330	5.54	3000	400
	5.5	70/0.32	3.1	1.0	2.2	18.0	19.0	485	3.63	3000	400
	8	50/0.45	3.7	1.0	2.4	21	22	660	2.57	3000	400
	14	88/0.45	4.9	1.0	2.6	25	26	995	1.46	3000	300
	22	7/20/0.45	7.0	1.2	3.0	31	33	1590	0.937	3000	300
	30	7/27/0.45	8.1	1.2	3.1	34	36	2020	0.694	3000	300
	38	7/34/0.45	9.1	1.2	3.3	37	39	2450	0.551	3000	200
	50	19/16/0.45	10.0	1.5	3.6	42	44	3080	0.432	3000	200
	60	19/20/0.45	11.2	1.5	3.8	45	47	3740	0.345	3000	200
	80	19/27/0.45	13.0	2.0	4.2	53	55	5080	0.255	3000	300
	100	19/34/0.45	14.7	2.0	4.5	57	60	6210	0.203	3000	200
	125	19/42/0.45	16.3	2.0	4.8	62	65	7460	0.164	3000	200
	150	27/34/0.45	17.7	2.0	5.0	66	69	8460	0.143	3000	200
	200	37/34/0.45	20.0	2.5	5.5	75	79	11440	0.104	3000	200

2TC-RB 1.25 to 2mm² (5 to 30 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
5	1.25	50/0.18	1.5	0.8	1.9	13.5	14.5	220	16.0	3000	500
6	1.25	50/0.18	1.5	0.8	2.0	14.5	15.5	265	16.0	3000	500
7	1.25	50/0.18	1.5	0.8	2.1	15.5	16.5	305	16.0	3000	500
8	1.25	50/0.18	1.5	0.8	2.1	16.5	17.5	345	16.0	3000	500
10	1.25	50/0.18	1.5	0.8	2.2	18.0	19.0	415	16.3	3000	500
12	1.25	50/0.18	1.5	0.8	2.2	18.5	19.5	455	16.3	3000	500
16	1.25	50/0.18	1.5	0.8	2.4	21	22	585	16.3	3000	500
20	1.25	50/0.18	1.5	0.8	2.5	23	24	710	16.3	3000	500
30	1.25	50/0.18	1.5	0.8	2.7	27	28	1010	16.3	3000	500
5	2	37/0.26	1.8	0.8	2.0	14.5	15.5	275	10.2	3000	500
6	2	37/0.26	1.8	0.8	2.0	15.5	16.5	320	10.2	3000	500
7	2	37/0.26	1.8	0.8	2.1	16.5	17.5	375	10.2	3000	500
8	2	37/0.26	1.8	0.8	2.2	18.0	19.0	430	10.2	3000	500
10	2	37/0.26	1.8	0.8	2.3	19.5	21	520	10.4	3000	500
12	2	37/0.26	1.8	0.8	2.3	20	21	580	10.4	3000	500
16	2	37/0.26	1.8	0.8	2.4	22	24	730	10.4	3000	500
20	2	37/0.26	1.8	0.8	2.6	25	26	905	10.4	3000	500
30	2	37/0.26	1.8	0.8	2.8	29	31	1280	10.4	3000	500

2TC-RB 3.5 to 5.5mm² (5 to 30 core)

5	3.5	45/0.32	2.5	0.8	2.1	16.5	17.5	400	5.54	3000	400
6	3.5	45/0.32	2.5	0.8	2.2	18.0	19.0	475	5.54	3000	400
7	3.5	45/0.32	2.5	0.8	2.3	19.5	21	555	5.54	3000	400
8	3.5	45/0.32	2.5	0.8	2.4	21	22	635	5.54	3000	400
10	3.5	45/0.32	2.5	0.8	2.5	23	24	775	5.65	3000	400
12	3.5	45/0.32	2.5	0.8	2.5	24	25	870	5.65	3000	400
16	3.5	45/0.32	2.5	0.8	2.7	26	28	1120	5.65	3000	400
20	3.5	45/0.32	2.5	0.8	2.8	29	30	1370	5.65	3000	400
30	3.5	45/0.32	2.5	0.8	3.1	34	36	1990	5.65	3000	400
5	5.5	70/0.32	3.1	1.0	2.3	19.5	21	590	3.63	3000	400
6	5.5	70/0.32	3.1	1.0	2.4	22	23	705	3.63	3000	400
7	5.5	70/0.32	3.1	1.0	2.5	23	24	820	3.63	3000	400
8	5.5	70/0.32	3.1	1.0	2.6	25	26	940	3.63	3000	400
10	5.5	70/0.32	3.1	1.0	2.7	27	29	1140	3.63	3000	400
12	5.5	70/0.32	3.1	1.0	2.8	28	30	1300	3.63	3000	400
16	5.5	70/0.32	3.1	1.0	3.0	32	33	1670	3.63	3000	400
20	5.5	70/0.32	3.1	1.0	3.2	35	37	2070	3.63	3000	400
30	5.5	70/0.32	3.1	1.0	3.6	42	44	3000	3.63	3000	400

For low voltage power

Class 3 600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 3TC-RB (600V 3PNCT)

Compliance standards

JIS C 3327

Features

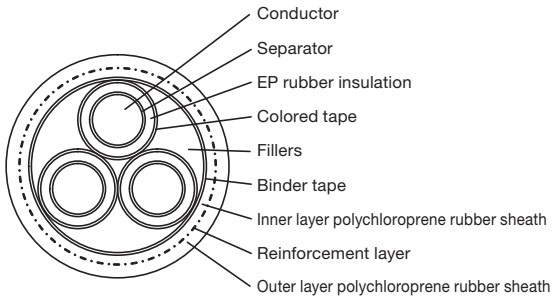
- This TRACAB product is well-suited for curtain, carrier drum, and cableveyor method transport.
- Features a reinforced layer midway through the sheath for superior resistance to outside damage and impact.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(2 core) Black, white (3 core) Black, white, red (4 core) Black, white, red, green (5 core or higher) Black, white, red, black, black... tracer method



3TC-RB 8 to 325mm² (single core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
1	8	50/0.45	3.7	1.2	2.6	13.5	14.5	235	2.45	3000	400
	14	88/0.45	4.9	1.2	2.7	14.5	15.5	315	1.39	3000	400
	22	7/20/0.45	7.0	1.6	2.9	18.0	19.0	480	0.892	3000	300
	30	7/27/0.45	8.1	1.6	2.9	19.5	21	590	0.661	3000	300
	38	7/34//0.45	9.1	1.6	3.0	21	22	720	0.525	3000	300
	50	19/16/0.45	10.0	2.1	3.2	23	24	905	0.411	3000	300
	60	19/20/0.45	11.2	2.1	3.2	24	25	1060	0.329	3000	300
	80	19/27/0.45	13.0	2.1	3.4	26	28	1330	0.243	3000	300
	100	19/34/0.45	14.7	2.1	3.5	28	30	1580	0.193	3000	300
	125	19/42/0.45	16.3	2.7	3.7	32	33	1970	0.156	3000	300
	150	27/34/0.45	17.7	2.7	3.8	33	35	2210	0.136	3000	300
	200	37/34/0.45	20.0	3.3	4.0	37	39	2920	0.0993	3000	300
	250	37/42/0.45	22.0	3.3	4.1	39	41	3460	0.0803	3000	300
	325	37/55/0.45	25.4	3.3	4.4	43	46	4370	0.0614	3000	300

3TC-RB 2 to 200mm² (2 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
2	2	37/0.26	1.8	1.2	2.8	15.0	16.0	270	10.2	3000	500
	3.5	45/0.32	2.5	1.2	2.9	16.5	17.5	340	5.54	3000	500
	5.5	70/0.32	3.1	1.2	3.0	18.0	19.0	420	3.63	3000	500
	8	50/0.45	3.7	1.2	3.1	21	22	540	2.57	3000	400
	14	88/0.45	4.9	1.2	3.3	24	25	750	1.46	3000	400
	22	7/20/0.45	7.0	1.6	3.7	30	32	1200	0.937	3000	300
	30	7/27/0.45	8.1	1.6	3.8	33	34	1460	0.694	3000	300
	38	7/34/0.45	9.1	1.6	4.0	35	37	1720	0.551	3000	300
	50	19/16/0.45	10.0	2.1	4.2	39	41	2160	0.432	3000	300
	60	19/20/0.45	11.2	2.1	4.4	42	45	2570	0.345	3000	300
	80	19/27/0.45	13.0	2.1	4.7	47	49	3230	0.255	3000	300
	100	19/34/0.45	14.7	2.1	4.9	50	53	3880	0.203	3000	300
	125	19/42/0.45	16.3	2.7	5.3	57	60	4860	0.164	3000	300
	150	27/34/0.45	17.7	2.7	5.4	60	63	5440	0.143	3000	300
	200	37/34/0.45	20.0	3.3	5.9	68	72	7260	0.104	3000	300

3TC-RB 2 to 200mm² (3 core)

3	2	37/0.26	1.8	1.2	2.9	16.0	17.0	315	10.2	3000	500
	3.5	45/0.32	2.5	1.2	3.0	17.5	18.5	410	5.54	3000	500
	5.5	70/0.32	3.1	1.2	3.1	19.0	20	520	3.63	3000	500
	8	50/0.45	3.7	1.2	3.2	22	23	660	2.57	3000	400
	14	88/0.45	4.9	1.2	3.4	25	26	945	1.46	3000	400
	22	7/20/0.45	7.0	1.6	3.8	32	34	1510	0.937	3000	300
	30	7/27/0.45	8.1	1.6	4.0	35	37	1880	0.694	3000	300
	38	7/34/0.45	9.1	1.6	4.1	37	39	2220	0.551	3000	300
	50	19/16/0.45	10.0	2.1	4.4	42	44	2810	0.432	3000	300
	60	19/20/0.45	11.2	2.1	4.6	45	48	3350	0.345	3000	300
	80	19/27/0.45	13.0	2.1	4.8	50	52	4220	0.255	3000	300
	100	19/34/0.45	14.7	2.1	5.1	54	57	5120	0.203	3000	300
	125	19/42/0.45	16.3	2.7	5.5	61	64	6410	0.164	3000	300
	150	27/34/0.45	17.7	2.7	5.7	64	67	7230	0.143	3000	300
	200	37/34/0.45	20.0	3.3	6.2	73	77	9680	0.104	3000	300

3TC-RB 2 to 200mm² (4 core)

4	2	37/0.26	1.8	1.2	2.9	17.0	18.0	370	10.2	3000	500
	3.5	45/0.32	2.5	1.2	3.1	19.0	20	495	5.54	3000	500
	5.5	70/0.32	3.1	1.2	3.1	21	22	620	3.63	3000	500
	8	50/0.45	3.7	1.2	3.3	24	25	815	2.57	3000	400
	14	88/0.45	4.9	1.2	3.5	27	29	1170	1.46	3000	400
	22	7/20/0.45	7.0	1.6	4.0	35	37	1900	0.937	3000	300
	30	7/27/0.45	8.1	1.6	4.2	38	40	2370	0.694	3000	300
	38	7/34/0.45	9.1	1.6	4.3	41	43	2810	0.551	3000	300
	50	19/16/0.45	10.0	2.1	4.6	47	49	3560	0.432	3000	300
	60	19/20/0.45	11.2	2.1	4.9	50	53	4280	0.345	3000	300
	80	19/27/0.45	13.0	2.1	5.2	55	58	5430	0.255	3000	300
	100	19/34/0.45	14.7	2.1	5.4	60	63	6560	0.203	3000	300
	125	19/42/0.45	16.3	2.7	5.9	67	71	8240	0.164	3000	300
	150	27/34/0.45	17.7	2.7	6.1	71	75	9290	0.143	3000	300
	200	37/34/0.45	20.0	3.3	6.7	81	85	12500	0.104	3000	300

3TC-RB 2 to 5.5mm^2 (5 to 30 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm^2	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
5	2	37/0.26	1.8	1.2	3.0	18.5	19.5	435	10.2	3000	500
6	2	37/0.26	1.8	1.2	3.1	20	21	510	10.2	3000	500
7	2	37/0.26	1.8	1.2	3.2	22	23	580	10.2	3000	500
8	2	37/0.26	1.8	1.2	3.3	23	24	655	10.2	3000	500
10	2	37/0.26	1.8	1.2	3.4	25	26	780	10.4	3000	500
12	2	37/0.26	1.8	1.2	3.4	26	27	855	10.4	3000	500
16	2	37/0.26	1.8	1.2	3.6	29	30	1070	10.4	3000	500
20	2	37/0.26	1.8	1.2	3.8	32	33	1310	10.4	3000	500
30	2	37/0.26	1.8	1.2	4.1	37	39	1830	10.4	3000	500
5	3.5	45/0.32	2.5	1.2	3.1	21	22	580	5.54	3000	500
6	3.5	45/0.32	2.5	1.2	3.2	23	24	675	5.54	3000	500
7	3.5	45/0.32	2.5	1.2	3.3	24	25	775	5.54	3000	500
8	3.5	45/0.32	2.5	1.2	3.5	26	28	900	5.54	3000	500
10	3.5	45/0.32	2.5	1.2	3.6	28	30	1080	5.65	3000	500
12	3.5	45/0.32	2.5	1.2	3.6	29	31	1190	5.65	3000	500
16	3.5	45/0.32	2.5	1.2	3.8	32	34	1500	5.65	3000	500
20	3.5	45/0.32	2.5	1.2	4.0	36	38	1840	5.65	3000	500
30	3.5	45/0.32	2.5	1.2	4.4	42	44	2610	5.65	3000	500
5	5.5	70/0.32	3.1	1.2	3.3	23	24	750	3.63	3000	500
6	5.5	70/0.32	3.1	1.2	3.4	25	26	880	3.63	3000	500
7	5.5	70/0.32	3.1	1.2	3.5	27	28	1020	3.63	3000	500
8	5.5	70/0.32	3.1	1.2	3.6	29	30	1160	3.63	3000	500
10	5.5	70/0.32	3.1	1.2	3.7	31	32	1380	3.63	3000	500
12	5.5	70/0.32	3.1	1.2	3.8	32	34	1560	3.63	3000	500
16	5.5	70/0.32	3.1	1.2	4.0	36	37	1980	3.63	3000	500
20	5.5	70/0.32	3.1	1.2	4.2	39	41	2420	3.63	3000	500
30	5.5	70/0.32	3.1	1.2	4.6	46	49	3460	3.63	3000	500

For low voltage power

Class 2 600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 2TC-RH

Compliance standards

JIS C 3327

Features

- This TRACAB product is well-suited for transport using the horizontal reel winding method.
- The class 2 product also has a reinforced layer midway through the sheath to prevent twisting.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(2 core) Black, white (3 core) Black, white, red (4 core) Black, white, red, green (5 core or higher) Black, white, red, black, black... tracer method

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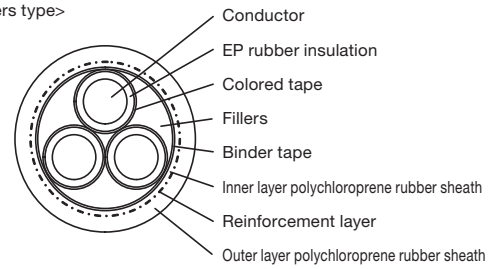

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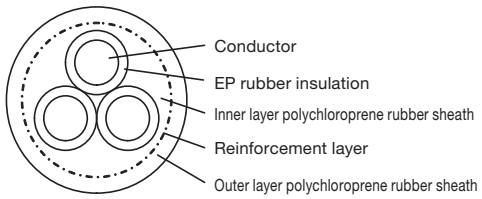

2TC-RH 30 to 325mm² (single core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ・km
1	30	7/27/0.45	8.1	1.2	2.0	16.5	17.5	510	0.661	3000	300
	38	7/34//0.45	9.1	1.2	2.1	17.5	18.5	610	0.525	3000	200
	50	19/16/0.45	10.0	1.5	2.2	19.5	21	755	0.411	3000	300
	60	19/20/0.45	11.2	1.5	2.2	21	22	895	0.329	3000	200
	80	19/27/0.45	13.0	2.0	2.4	24	25	1200	0.243	3000	300
	100	19/34/0.45	14.7	2.0	2.5	26	27	1460	0.193	3000	200
	125	19/42/0.45	16.3	2.0	2.7	28	29	1750	0.156	3000	200
	150	27/34/0.45	17.7	2.0	2.7	29	31	1970	0.136	3000	200
	200	37/34/0.45	20.0	2.5	3.0	33	35	2640	0.0993	3000	200
	250	37/42/0.45	22.0	2.5	3.1	35	37	3160	0.0803	3000	200
	325	37/55/0.45	25.4	2.5	3.3	39	41	4020	0.0614	3000	200

2TC-RH 1.25 to 200mm² (2 core)

* Marked sizes are for the rubber enhanced type

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance 20℃	Test voltage	Minimum insulation resistance 20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
2	*1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.0	11.5	12.5	160	16.2	3000	500
	*2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.0	12.0	13.0	185	10.2	3000	500
	*3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.0	13.0	14.0	250	5.69	3000	400
	*5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.0	15.5	16.5	305	3.65	3000	400
	*8	7/ {Cu22/0.26 (3 pieces of St contained)}	4.5	1.0	2.2	18.0	19.0	500	2.56	3000	400
	*14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.0	2.4	22	23	740	1.55	3000	300
	*22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.2	2.6	26	27	1110	0.935	3000	300
	30	7/27/0.45	8.1	1.2	2.8	29	31	1210	0.694	3000	300
	38	7/34/0.45	9.1	1.2	3.0	31	33	1480	0.551	3000	200
	50	19/16/0.45	10.0	1.5	3.2	35	36	1840	0.432	3000	200
	60	19/20/0.45	11.2	1.5	3.3	37	39	2190	0.345	3000	200
	80	19/27/0.45	13.0	2.0	3.7	44	46	2970	0.255	3000	300
	100	19/34/0.45	14.7	2.0	3.9	47	50	3600	0.203	3000	200
	125	19/42/0.45	16.3	2.0	4.1	51	54	4300	0.164	3000	200
	150	27/34/0.45	17.7	2.0	4.3	54	57	4870	0.143	3000	200
	200	37/34/0.45	20.0	2.5	4.8	62	65	6530	0.104	3000	200

2TC-RH 1.25 to 200mm² (3 core)

* Marked sizes are for the rubber enhanced type

3	*1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.0	12.0	13.0	185	16.2	3000	500
	*2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.0	12.5	13.5	215	10.2	3000	500
	*3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.0	14.0	15.0	295	5.69	3000	400
	*5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.1	16.5	17.5	430	3.65	3000	400
	*8	7/ {Cu22/0.26 (3 pieces of St contained)}	4.5	1.0	2.2	19.0	20	610	2.56	3000	400
	*14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.0	2.4	23	24	920	1.55	3000	300
	*22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.2	2.7	28	29	1400	0.935	3000	300
	30	7/27/0.45	8.1	1.2	2.9	31	33	1590	0.694	3000	300
	38	7/34/0.45	9.1	1.2	3.1	33	35	1940	0.551	3000	200
	50	19/16/0.45	10.0	1.5	3.3	37	39	2420	0.432	3000	200
	60	19/20/0.45	11.2	1.5	3.5	40	42	2920	0.345	3000	200
	80	19/27/0.45	13.0	2.0	3.9	47	49	3970	0.255	3000	300
	100	19/34/0.45	14.7	2.0	4.1	51	53	4830	0.203	3000	200
	125	19/42/0.45	16.3	2.0	4.3	55	57	5790	0.164	3000	200
	150	27/34/0.45	17.7	2.0	4.5	58	61	6560	0.143	3000	200
	200	37/34/0.45	20.0	2.5	5.0	66	70	8820	0.104	3000	200

2TC-RH 1.25 to 200mm² (4 core)

* Marked sizes are for the rubber enhanced type

4	*1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.0	12.5	13.5	220	16.2	3000	500
	*2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.0	13.5	14.5	260	10.2	3000	500
	*3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.0	15.0	16.0	365	5.69	3000	400
	*5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.2	18.0	19.0	535	3.65	3000	400
	*8	7/ {Cu22/0.26 (3 pieces of St contained)	4.5	1.0	2.3	21	22	765	2.56	3000	400
	*14	7/ {Cu24/0.32 (3 pieces of St contained)	5.9	1.0	2.6	25	26	1170	1.55	3000	300
	22	7/ {Cu20/0.45 (3 pieces of St contained)	7.5	1.2	3.0	33	35	1740	0.935	3000	300
	30	7/27/0.45	8.1	1.2	3.1	35	36	2030	0.694	3000	300
	38	7/34/0.45	9.1	1.2	3.3	37	39	2490	0.551	3000	200
	50	19/16/0.45	10.0	1.5	3.5	41	43	3100	0.432	3000	200
	60	19/20/0.45	11.2	1.5	3.7	44	46	3750	0.345	3000	200
	80	19/27/0.45	13.0	2.0	4.2	52	55	5120	0.255	3000	300
	100	19/34/0.45	14.7	2.0	4.4	56	59	6230	0.203	3000	200
	125	19/42/0.45	16.3	2.0	4.7	61	64	7500	0.164	3000	200
	150	27/34/0.45	17.7	2.0	4.9	65	68	8510	0.143	3000	200
	200	37/34/0.45	20.0	2.5	5.5	74	78	11470	0.104	3000	200

2TC-RH 1.25 to 5.5mm² (5 to 30 core)

* Marked sizes are for the rubber enhanced type

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω /km	V/1 min.	MΩ ·km
*5	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.0	13.5	14.5	255	16.2	3000	500
*6	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.0	14.5	15.5	295	16.2	3000	500
*7	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.0	15.5	16.5	340	16.2	3000	500
*8	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.1	17.0	18.0	410	16.2	3000	500
*10	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.3	19.5	21	535	16.2	3000	500
*12	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.4	22	23	605	16.2	3000	500
16	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.4	22	23	660	16.2	3000	500
20	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.5	25	26	805	16.2	3000	500
30	1.25	Cu50/0.18 (3 pieces of St contained)	1.7	0.8	2.8	29	30	1150	16.2	3000	500
*5	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.0	14.5	15.5	310	10.2	3000	500
*6	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.0	15.5	16.5	360	10.2	3000	500
*7	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.1	17.0	18.0	420	10.2	3000	500
*8	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.2	18.5	19.5	505	10.2	3000	500
*10	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.3	21	22	650	10.2	3000	500
*12	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.4	23	24	730	10.2	3000	500
16	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.5	24	25	825	10.2	3000	500
20	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.7	27	28	1030	10.2	3000	500
30	2	Cu37/0.26 (3 pieces of St contained)	2.0	0.8	2.9	31	32	1450	10.2	3000	500
*5	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.1	16.5	17.5	440	5.69	3000	400
*6	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.1	17.5	18.5	520	5.69	3000	400
*7	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.2	19.0	20	605	5.69	3000	400
*8	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.3	21	22	720	5.69	3000	400
*10	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.5	24	25	950	5.69	3000	400
*12	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.6	26	27	1060	5.69	3000	400
16	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.7	27	28	1230	5.69	3000	400
20	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	2.9	30	32	1530	5.69	3000	400
30	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	0.8	3.2	35	37	2200	5.69	3000	400
*5	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.3	19.5	21	650	3.65	3000	400
*6	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.4	22	23	780	3.65	3000	400
*7	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.5	24	25	910	3.65	3000	400
*8	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.6	26	27	1100	3.65	3000	400
10	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.9	31	32	1330	3.65	3000	400
12	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	2.8	30	31	1420	3.65	3000	400
16	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	3.0	33	35	1830	3.65	3000	400
20	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	3.3	37	38	2290	3.65	3000	400
30	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.0	3.6	43	45	3290	3.65	3000	400

For low voltage power

Class 3 600V ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 3TC-RH

Compliance standards

JIS C 3327

Features

- This TRACAB product is well-suited for transport using the horizontal reel winding method.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(2 core) Black, white (3 core) Black, white, red (4 core) Black, white, red, green (5 core or higher) Black, white, red, black, black... tracer method

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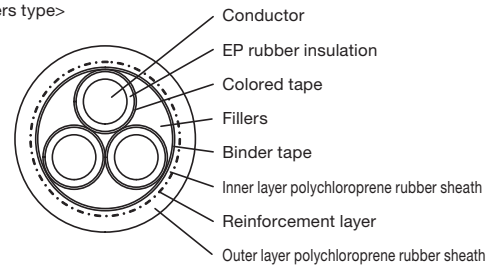

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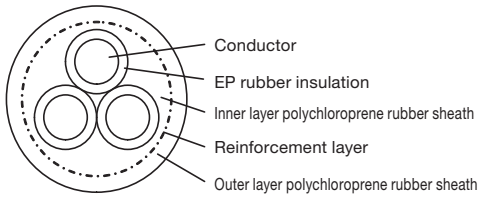


3TC-RH 30 to 325mm² (single core)

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ・km
1	30	7/27/0.45	8.1	1.6	3.0	19	20	620	0.661	3000	300
	38	7/34//0.45	9.1	1.6	3.0	20	21	720	0.525	3000	300
	50	19/16/0.45	10.0	2.1	3.1	23	24	890	0.411	3000	300
	60	19/20/0.45	11.2	2.1	3.2	24	25	1050	0.329	3000	300
	80	19/27/0.45	13.0	2.1	3.3	26	27	1320	0.243	3000	300
	100	19/34/0.45	14.7	2.1	3.5	28	29	1590	0.193	3000	200
	125	19/42/0.45	16.3	2.7	3.6	31	33	1950	0.156	3000	300
	150	27/34/0.45	17.7	2.7	3.7	33	34	2190	0.136	3000	300
	200	37/34/0.45	20.0	3.3	4.0	37	39	2910	0.0993	3000	300
	250	37/42/0.45	22.0	3.3	4.1	39	41	3450	0.0803	3000	300
	325	37/55/0.45	25.4	3.3	4.3	43	45	4340	0.0614	3000	300

3TC-RH 2 to 200mm² (2 core)

* Marked sizes are for the rubber enhanced type

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance 20℃	Test voltage	Minimum insulation resistance 20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
2	*2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	2.8	14.5	15.5	290	10.2	3000	500
	*3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	2.9	16.0	17.0	370	5.69	3000	500
	*5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.0	17.5	18.5	400	3.65	3000	500
	*8	7/ {Cu22/0.26 (3 pieces of St contained)}	4.5	1.2	3.1	20	21	625	2.56	3000	400
	*14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.2	3.3	24	25	885	1.55	3000	400
	*22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.6	3.6	29	30	1350	0.935	3000	300
	30	7/27/0.45	8.1	1.6	3.8	32	34	1450	0.694	3000	300
	38	7/34/0.45	9.1	1.6	4.0	35	37	1720	0.551	3000	300
	50	19/16/0.45	10.0	2.1	4.2	39	41	2150	0.432	3000	300
	60	19/20/0.45	11.2	2.1	4.4	42	44	2550	0.345	3000	300
	80	19/27/0.45	13.0	2.1	4.6	46	48	3190	0.255	3000	300
	100	19/34/0.45	14.7	2.1	4.8	50	52	3840	0.203	3000	200
	125	19/42/0.45	16.3	2.7	5.2	56	59	4820	0.164	3000	300
	150	27/34/0.45	17.7	2.7	5.4	59	62	5420	0.143	3000	300
	200	37/34/0.45	20.0	3.3	5.9	67	71	7200	0.104	3000	300

3TC-RH 2 to 200mm² (3 core)

* Marked sizes are for the rubber enhanced type

3	*2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	2.8	15.5	16.5	325	10.2	3000	500
	*3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	2.9	17.0	18.0	425	5.69	3000	500
	*5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.0	18.5	19.5	540	3.65	3000	500
	*8	7/ {Cu22/0.26 (3 pieces of St contained)}	4.5	1.2	3.2	22	23	750	2.56	3000	400
	*14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.2	3.4	25	26	1090	1.55	3000	400
	*22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.6	3.7	31	32	1660	0.935	3000	300
	30	7/27/0.45	8.1	1.6	4.0	35	36	1870	0.694	3000	300
	38	7/34/0.45	9.1	1.6	4.1	37	39	2210	0.551	3000	300
	50	19/16/0.45	10.0	2.1	4.4	42	44	2800	0.432	3000	300
	60	19/20/0.45	11.2	2.1	4.5	45	47	3310	0.345	3000	300
	80	19/27/0.45	13.0	2.1	4.8	49	51	4210	0.255	3000	300
	100	19/34/0.45	14.7	2.1	5.0	53	56	5090	0.203	3000	200
	125	19/42/0.45	16.3	2.7	5.4	60	63	6380	0.164	3000	300
	150	27/34/0.45	17.7	2.7	5.6	63	66	7190	0.143	3000	300
	200	37/34/0.45	20.0	3.3	6.2	72	76	9630	0.104	3000	300

3TC-RH 2 to 150mm² (4 core)

* Marked sizes are for the rubber enhanced type

4	*2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	2.9	16.5	17.5	390	10.2	3000	500
	*3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.0	18.5	19.5	515	5.69	3000	500
	*5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.1	20	21	665	3.65	3000	500
	*8	7/ {Cu22/0.26 (3 pieces of St contained)}	4.5	1.2	3.3	24	25	925	2.56	3000	400
	*14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.2	3.5	28	29	1350	1.55	3000	400
	22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.6	4.1	37	38	2050	0.935	3000	300
	30	7/27/0.45	8.1	1.6	4.2	38	40	2360	0.694	3000	300
	38	7/34/0.45	9.1	1.6	4.3	41	43	2810	0.551	3000	300
	50	19/16/0.45	10.0	2.1	4.6	46	48	3550	0.432	3000	300
	60	19/20/0.45	11.2	2.1	4.8	49	52	4230	0.345	3000	300
	80	19/27/0.45	13.0	2.1	5.1	54	57	5390	0.255	3000	300
	100	19/34/0.45	14.7	2.1	5.4	59	62	6550	0.203	3000	200
	125	19/42/0.45	16.3	2.7	5.8	67	70	8210	0.164	3000	300
	150	27/34/0.45	17.7	2.7	6.1	71	74	9290	0.143	3000	300

3TC-RH 2 to 5.5mm^2 (5 to 30 core)

* Marked sizes are for the rubber enhanced type

No. of wire cores	Conductor			EP rubber insulation thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm^2	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
*5	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.0	18.0	19.0	475	10.2	3000	500
*6	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.1	19.5	21	550	10.2	3000	500
*7	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.2	21	23	635	10.2	3000	500
*8	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.3	23	24	760	10.2	3000	500
*10	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.5	27	28	980	10.2	3000	500
*12	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.6	28	29	1060	10.2	3000	500
16	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.7	30	31	1180	10.2	3000	500
20	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	3.8	33	34	1430	10.2	3000	500
30	2	Cu37/0.26 (3 pieces of St contained)	2.0	1.2	4.2	38	40	2010	10.2	3000	500
*5	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.1	20	21	620	5.69	3000	500
*6	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.2	22	23	730	5.69	3000	500
*7	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.3	24	25	845	5.69	3000	500
*8	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.4	26	27	1010	5.69	3000	500
*10	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.6	29	31	1310	5.69	3000	500
*12	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.7	31	32	1420	5.69	3000	500
16	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	3.8	33	34	1610	5.69	3000	500
20	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	4.1	36	38	1990	5.69	3000	500
30	3.5	Cu45/0.32 (3 pieces of St contained)	2.6	1.2	4.4	42	45	2810	5.69	3000	500
*5	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.2	22	23	795	3.65	3000	500
*6	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.3	24	25	945	3.65	3000	500
*7	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.5	26	28	1120	3.65	3000	500
*8	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.6	29	30	1330	3.65	3000	500
10	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.9	34	36	1590	3.65	3000	500
12	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	3.8	33	34	1670	3.65	3000	500
16	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	4.1	37	38	2150	3.65	3000	500
20	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	4.3	41	43	2650	3.65	3000	500
30	5.5	Cu70/0.32 (3 pieces of St contained)	3.3	1.2	4.7	48	50	3770	3.65	3000	500

For low voltage power

Class 2 600V flat ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 2TC-FH

Compliance standards

JIS C 3327

Features

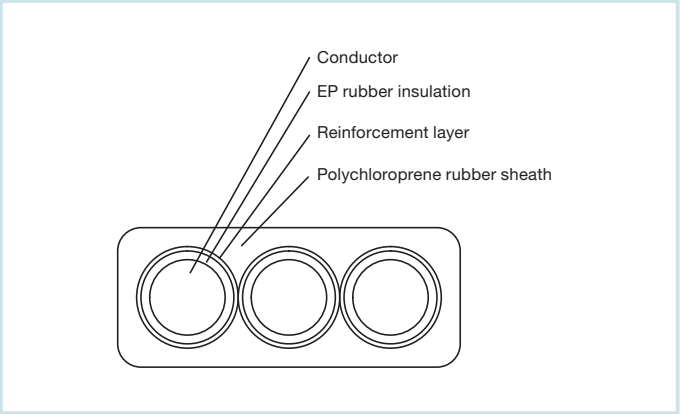
- This TRACAB product is well-suited for transport using the horizontal reel winding method.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(3 core) Black, white, red (4 core) Black, white, red, green



600V 2TC-FH 14 to 325mm² (3 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Canvas for reinforcement winding thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter							Maximum conductor resistance	Test voltage	Minimum insulation resistance
										20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
3	14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.0	0.85	3.0	16.0 × 35	17.0 × 37	1110	1.48	3000	300
	22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.2	0.85	3.0	18.0 × 41	19.0 × 43	1540	0.890	3000	300
	30	7/27/0.45	8.1	1.2	0.85	3.0	18.5 × 43	19.5 × 45	1760	0.661	3000	300
	38	7/34//0.45	9.1	1.2	0.85	3.0	19.5 × 46	21 × 48	2070	0.525	3000	200
	50	19/16/0.45	10.0	1.5	0.85	3.0	21 × 51	22 × 53	2520	0.411	3000	200
	60	19/20/0.45	11.2	1.5	0.85	3.2	23 × 55	24 × 57	3020	0.329	3000	200
	80	19/27/0.45	13.0	2.0	0.85	3.6	26 × 64	28 × 67	4090	0.243	3000	300
	100	19/34/0.45	14.7	2.0	0.85	3.8	28 × 69	30 × 73	4950	0.193	3000	200
	125	19/42/0.45	16.3	2.0	0.85	4.0	30 × 74	32 × 78	5910	0.156	3000	200
	150	27/34/0.45	17.7	2.0	0.85	4.2	32 × 79	34 × 83	6690	0.136	3000	200
	200	37/34/0.45	20.0	2.5	0.85	4.6	36 × 90	38 × 94	9130	0.0993	3000	200
	250	37/42/0.45	22.0	2.5	0.85	4.9	39 × 96	41 × 101	10920	0.0803	3000	200
	325	37/55/0.45	25.4	2.5	0.85	5.4	43 × 108	45 × 113	13930	0.0614	3000	200

For low voltage power

Class 3 600V flat ethylene propylene rubber-insulated polychloroprene rubber sheath cable

600V 3TC-FH

Compliance standards

JIS C 3327

Features

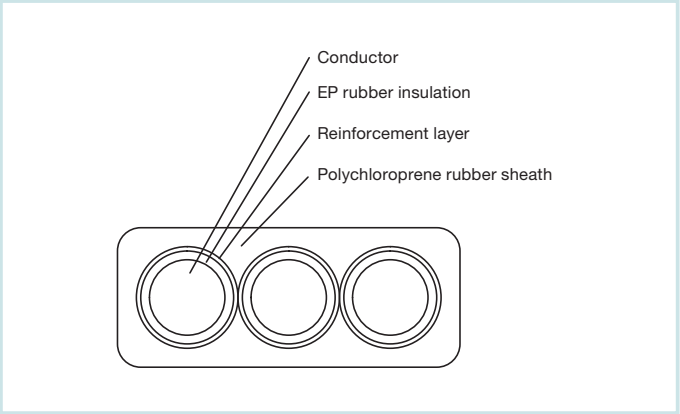
- This TRACAB product is well-suited for transport using the horizontal reel winding method.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Sheath: Polychloroprene rubber

Wire core identification

(3 core) Black, white, red (4 core) Black, white, red, green



600V 3TC-FH 14 to 325mm² (3 core)

No. of wire cores	Conductor			EP rubber insulation thickness	Canvas for reinforcement winding thickness	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter							Maximum conductor resistance	Test voltage	Minimum insulation resistance
										20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/1 min.	MΩ·km
3	14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	1.2	0.85	3.3	17.0 × 37	18.0 × 39	1200	1.48	3000	300
	22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	1.6	0.85	3.6	20 × 45	21 × 47	1760	0.890	3000	300
	30	7/27/0.45	8.1	1.6	0.85	3.7	21 × 47	22 × 49	2000	0.661	3000	300
	38	7/34/0.45	9.1	1.6	0.85	3.8	22 × 50	23 × 53	2350	0.525	3000	300
	50	19/16/0.45	10.0	2.1	0.85	4.1	25 × 56	26 × 59	2960	0.411	3000	300
	60	19/20/0.45	11.2	2.1	0.85	4.3	26 × 60	27 × 63	3490	0.329	3000	300
	80	19/27/0.45	13.0	2.1	0.85	4.5	28 × 66	30 × 69	4370	0.243	3000	300
	100	19/34/0.45	14.7	2.1	0.85	4.7	30 × 72	32 × 75	5260	0.193	3000	200
	125	19/42/0.45	16.3	2.7	0.85	5.1	34 × 81	36 × 85	6580	0.156	3000	300
	150	27/34/0.45	17.7	2.7	0.85	5.3	36 × 85	38 × 90	7400	0.136	3000	300
	200	37/34/0.45	20.0	3.3	0.85	5.7	40 × 97	42 × 102	10050	0.0993	3000	300
	250	37/42/0.45	22.0	3.3	0.85	6.0	43 × 103	45 × 108	11910	0.0803	3000	300
	325	37/55/0.45	25.4	3.3	0.85	6.5	47 × 115	49 × 120	15020	0.0614	3000	200

For high voltage power

Class 3 6600V flat ethylene propylene rubber-insulated polychloroprene rubber sheath cable

6600V 3TC-FH

Compliance standards

JIS C 4353

Features

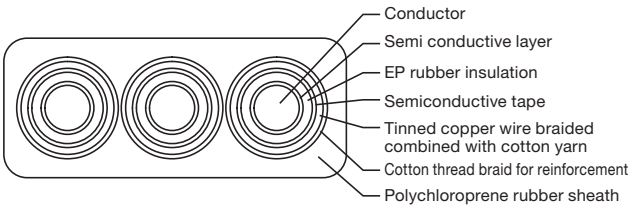
- This TRACAB product is well-suited for transport using the horizontal reel winding method.

Structure

- Conductor: Tin-coated annealed copper strand wire
- Insulation: Ethylene propylene rubber (EP rubber)
- Shielding: Tinned copper wire braided combined with cotton yarn
- Sheath: Polychloroprene rubber

Wire core identification

(3 core) White, red, blue (4 core) White, red, blue, black



6600V 3TC-FH 14 to 325mm² (3 core)

No. of wire cores	Conductor			EP rubber insulation thickness*	Polychloroprene rubber sheath thickness	Overall diameter	Maximum overall diameter	Approx. net weight (reference value)	Electrical properties		
	Nominal cross sectional area	Structure	Outer diameter						Maximum conductor resistance	Test voltage	Minimum insulation resistance
									20℃		20℃
	mm²	Wires/mm	Approx. mm	mm	mm	Approx. mm	mm	kg/km	Ω/km	V/10 min.	MΩ・km
3	14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	5.0	5.1	29 × 65	30 × 68	3090	1.48	17000	500
	22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	5.0	5.3	31 × 70	32 × 74	3700	0.890	17000	500
	30	7/27/0.45	8.1	5.0	5.5	32 × 74	33 × 78	4240	0.661	17000	500
	38	7/34/0.45	9.1	5.0	5.6	33 × 77	35 × 81	4710	0.525	17000	500
	50	19/16/0.45	10.0	5.0	5.7	35 × 80	36 × 84	5200	0.411	17000	500
	60	19/20/0.45	11.2	5.0	5.9	36 × 84	38 × 88	5870	0.329	17000	500
	80	19/27/0.45	13.0	5.0	6.1	38 × 90	40 × 94	6930	0.243	17000	500
	100	19/34/0.45	14.7	5.0	6.4	41 × 95	43 × 100	8050	0.193	17000	500
	125	19/42/0.45	16.3	5.0	6.6	43 × 101	45 × 106	9200	0.156	17000	400
	150	27/34/0.45	17.7	5.0	6.8	44 × 105	47 × 110	10160	0.136	17000	400
	200	37/34/0.45	20.0	5.5	7.2	49 × 116	51 × 122	12790	0.0993	17000	400
	250	37/42/0.45	22.0	5.5	7.5	51 × 123	54 × 129	14820	0.0803	17000	300
	325	37/55/0.45	25.4	5.5	7.9	55 × 134	58 × 140	18150	0.0614	17000	300

6600V 3TC-FH 14 to 250mm² (4 core)

4	14	7/ {Cu24/0.32 (3 pieces of St contained)}	5.9	5.0	5.7	30 × 85	32 × 89	4180	1.48	17000	500
	22	7/ {Cu20/0.45 (3 pieces of St contained)}	7.5	5.0	6.0	32 × 92	34 × 96	5040	0.890	17000	500
	30	7/27/0.45	8.1	5.0	6.2	34 × 96	35 × 101	5750	0.661	17000	500
	38	7/34/0.45	9.1	5.0	6.3	35 × 100	37 × 105	6360	0.525	17000	500
	50	19/16/0.45	10.0	5.0	6.5	36 × 104	38 × 109	7080	0.411	17000	500
	60	19/20/0.45	11.2	5.0	6.7	38 × 109	40 × 115	7970	0.329	17000	500
	80	19/27/0.45	13.0	5.0	7.0	40 × 117	42 × 123	9460	0.243	17000	500
	100	19/34/0.45	14.7	5.0	7.3	42 × 125	45 × 131	10940	0.193	17000	500
	125	19/42/0.45	16.3	5.0	7.5	44 × 131	47 × 138	12470	0.156	17000	400
	150	27/34/0.45	17.7	5.0	7.8	46 × 138	49 × 145	13810	0.136	17000	400
	200	37/34/0.45	20.0	5.5	8.3	51 × 152	53 × 159	17390	0.0993	17000	400
	250	37/42/0.45	22.0	5.5	8.7	54 × 161	56 × 169	20160	0.0803	17000	300

* Includes thickness of inner semiconductive layer.

Permissible current table

Permissible current table: Low voltage cabtyre cables (in air or underdrain)

600V 2TCLight (2PNCT)

Base temperature 30°C, conductor maximum allowable temperature 80°C (unit: A)

Laying conditions / Nominal cross sectional area mm²	Laying in air/underdrain			
	Single core	2 core	3 core	4 core
	Single cable laid	Single cable laid	Single cable laid	Single cable laid
0.75	18	15	13	11
1.25	24	20	18	16
2	32	28	24	22
3.5	47	41	36	32
5.5	63	53	46	41
8	80	65	56	50
14	113	90	80	71
22	148	122	107	95
30	180	143	126	115
38	213	167	142	129
50	251	193	161	148
60	290	219	193	174
80	348	266	229	209
100	406	307	264	241
125	444	352	302	276
150	489	388	333	304
200	584	471	405	365

* Permissible current for 4 core: Same value as 3 core when used for a 3-phase load.

600V 2TC-RB and 2TC-RH

Base temperature 30°C, conductor maximum allowable temperature 80°C (unit: A)

Laying conditions / Nominal cross sectional area mm²	Laying in air/underdrain			
	Single core	2 core	3 core	4 core
	Single cable laid	Single cable laid	Single cable laid	Single cable laid
1.25	—	21	18	16
2	—	27	23	21
3.5	—	39	33	30
5.5	—	52	44	40
8	77	64	54	49
14	110	90	76	69
22	150	121	103	93
30	181	145	123	112
38	209	166	142	128
50	242	191	164	149
60	279	219	188	172
80	336	265	229	211
100	388	306	266	245
125	442	351	305	282
150	484	384	333	310
200	577	464	404	377
250	654	527	460	—
325	766	618	545	—

* Permissible current for 4 core: Same value as 3 core when used for a 3-phase load.

600V 3TC-RB (3PNCT) and 3TC-RH

Base temperature 30°C, conductor maximum allowable temperature 80°C (unit: A)

Laying conditions / Nominal cross sectional area mm²	Laying in air/underdrain			
	Single core	2 core	3 core	4 core
	Single cable laid	Single cable laid	Single cable laid	Single cable laid
1.25	—	—	—	—
2	—	28	24	22
3.5	—	40	34	31
5.5	—	52	44	40
8	80	64	55	49
14	112	90	76	69
22	151	121	103	93
30	182	144	123	111
38	210	165	141	128
50	242	190	163	150
60	278	219	189	173
80	334	265	229	210
100	386	305	265	244
125	437	350	304	281
150	476	381	331	308
200	568	461	401	373
250	642	529	455	—
325	759	618	532	—

* Permissible current for 4 core: Same value as 3 core when used for a 3-phase load.

600V 2TC-FB and 2TC-FH (flat)

Base temperature 30°C, conductor maximum allowable temperature 80°C (unit: A)

Laying conditions / Nominal cross sectional area mm²	Laying in air/underdrain	
	3 core	4 core
	Single cable laid	Single cable laid
14	90	79
22	123	107
30	145	127
38	168	147
50	193	169
60	222	194
80	267	233
100	308	268
125	351	305
150	382	333
200	456	396
250	515	447
325	607	529

* Permissible current for 4 core: Same value as 3 core when used for a 3-phase load.

600V 3TC-FB and 3TC-FH (flat)

Base temperature 30°C, conductor maximum allowable temperature 80°C (unit: A)

Laying conditions / Nominal cross sectional area mm²	Laying in air/underdrain	
	3 core	4 core
	Single cable laid	Single cable laid
14	91	79
22	123	107
30	145	137
38	168	146
50	193	168
60	221	193
80	265	231
100	306	266
125	346	301
150	377	328
200	448	392
250	510	445
325	603	525

* Permissible current for 4 core: Same value as 3 core when used for a 3-phase load.

Permissible current table: High voltage cabtyre (in air or underdrain)

6600V 3TC-FH (flat)

Base temperature 30°C, conductor maximum allowable temperature 80°C (unit: A)

Laying conditions / Nominal cross sectional area mm²	Laying in air/underdrain	
	3 core	4 core
	Single cable laid	Single cable laid
14	90	79
22	121	105
30	143	124
38	164	142
50	188	164
60	215	187
80	258	224
100	296	260
125	338	295
150	370	322
200	444	387
250	505	438
325	593	520

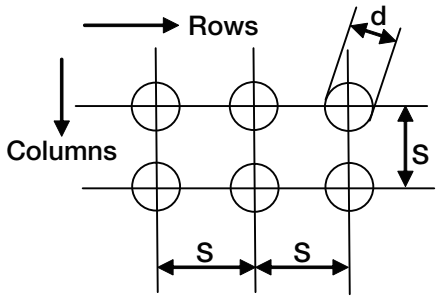
* Permissible current for 4 core: Same value as 3 core when used for a 3-phase load.

Permissible current reduction ratio table

Reduction ratio when multiple cables are suspending in the air/laid in underdrain

If multiple cables are suspended in the air or laid in an underdrain, use the reduction ratios below to correct the permissible current.

Space between centers	Rows	1				
	Columns	1	2	3	6	7 to 20
S=d		1.00	0.85	0.80	0.70	0.70
S=2d		1.00	0.95	0.95	0.90	0.80
S=3d		1.00	1.00	1.00	0.95	—



Space between centers	Rows	2						
	Columns	2	3	4	5	6	7	8 to 20
S=d		0.70	0.60	0.60	0.56	0.53	0.51	0.50
S=2d		0.90	0.90	0.85	0.73	0.72	0.71	0.70
S=3d		0.95	0.95	0.90	—	—	—	—

Space between centers	Rows	3									
	Columns	3	4	5	6	7	8	9 to 10	11 to 12	13 to 15	16 to 19	20
S=d		0.48	0.41	0.37	0.34	0.32	0.31	0.30	0.30	0.30	0.30	0.30
S=2d		0.80	0.80	0.68	0.66	0.65	0.65	0.64	0.63	0.62	0.61	0.60
S=3d		0.85	0.85	—	—	—	—	—	—	—	—	—

[Calculation example]

600 V 2TC Light 3x38mm^2: For laying of 2 rows and 3 columns (S=d), 142 A x 0.60 = 85 A

Correction factors by base temperature

If the base temperature is not 30°C, the permissible current can be corrected by multiplying it by the electrical current correction factor listed in the following table:

Electrical current correction factor table

Base temperature °C	20	25	30	35	40	45	50	55	60
Electrical current correction factor	1.10	1.05	1.00	0.95	0.89	0.84	0.77	0.71	0.63

Multicore cable correction factor

The correction factor for multicore cables can be calculated by multiplying the permissible currents for single core cables in tables 1 through 4 with the correction factors in the following table:

No. of wire cores	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Correction factor	0.65	0.59	0.55	0.51	0.49	0.46	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37

No. of wire cores	18	19	20	21	22	23	24	25	26	27	28	29	30
Correction factor	0.36	0.36	0.35	0.34	0.33	0.32	0.32	0.32	0.31	0.30	0.30	0.29	0.29

Reel winding reduction ratio (round)

		No. of winding lines			
		1	2	3	4
No. of winding layers	1	1.0	0.85	0.8	0.75
	2	0.85	0.8	0.75	0.7
	3	0.8	0.75	0.7	0.65
	4	0.75	0.7	0.65	0.65
	5	0.7	0.65	0.6	0.6
	6	0.7	0.65	0.6	0.6

Reel winding reduaction ratio (flat)

0.7 or higher

FURUKAWA ELECTRIC INDUSTRIAL CABLE CO., LTD. http://www.feic.co.jp/english/

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