

3PNCT

Class 3 EP rubber insulated chloroprene rubber sheathed flexible cable

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

Meeting standard



Certification	Electrical Appliance and Material Safety
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment
Official symbol	3PNCT
Voltage rating	600V
Temperature rating	80°C
Conductor	JIS C 3152
Flame rating	JIS C 3005-4.26.2-a)

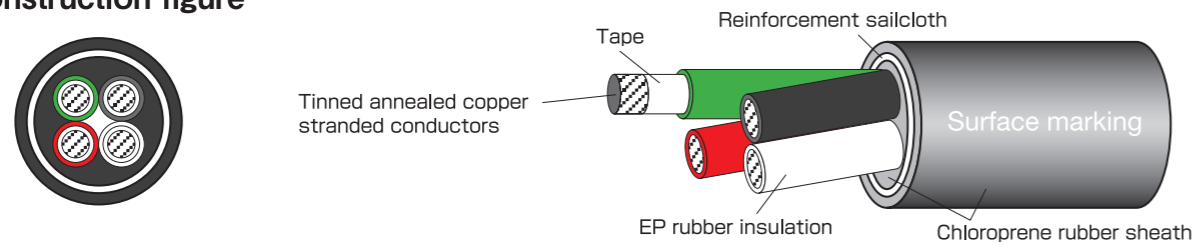
Application

- Power supply circuit of portable electrical machinery and apparatus not higher than 600V and in other cases where flexibility and bending resistance are required. (It is not suitable for applications where it undergoes repeated bending)
- Rated voltage:600V. Temp:80°C.

Feature

- EP rubber for insulation.
- Electrical characteristics, heat resistance, ozone resistance.
- High allowable current.
- Chloroprene rubber for sheath.
- Oil resistance, flame retardance.
- Reinforcement layer to the internal sheath.
- Abrasion resistance, Impact resistance.
- Conform to Electrical Appliance and Material Safety Law.(8 cores or more is excluded)

Construction figure



※Cables with more than 12 cores : binder tape on cores.

Surface marking

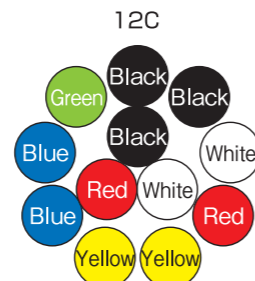
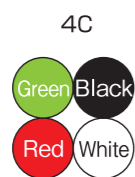
(1) 7 cores or less



(2) 8 cores or more



Identification



Standard sales length

Sale by cutting short length is available.

Construction table

No. of cores	Conductor			EP rubber insulation		Chloroprene rubber sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG) (mm ²)	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 (MΩ·km20°C)	Electrical strength (V/1min.)	
2C						0.598	15.2	188(280)				28
3C						0.626	15.9	215(320)				24
4C						0.677	17.2	255(380)				22
5C						0.732	18.6	302(450)				22
6C						0.791	20.1	349(520)				20
7C	2	37/0.26 (37/10.2mil)	1.8 (71mil)	0.169	4.3	0.843	21.4	396(590)	less than 10.2	more than 500	3000	18
8C						0.902	22.9	444(660)				18
10C						1.024	26.0	551(820)				16
12C						1.020	25.9	578(860)				15
20C						1.276	32.4	860(1280)				13
30C						1.496	38.0	1216(1810)				11
2C						0.661	16.8	242(360)				41
3C						0.693	17.6	282(420)				36
4C						0.752	19.1	343(510)				32
5C						0.815	20.7	423(630)				32
6C	3.5	45/0.32 (45/12.6mil)	2.5 (98mil)	0.197	5.0	0.882	22.4	484(720)	less than 5.54	more than 500	3000	28
7C						0.949	24.1	551(820)				26
8C						1.020	25.9	618(920)				25
10C						1.157	29.4	773(1150)				23
12C						1.150	29.2	827(1230)				21
20C						1.445	36.7	1297(1930)				18
30C						1.697	43.1	1794(2670)				16
2C						0.709	18.0	296(440)				53
3C						0.752	19.1	349(520)				46
4C						0.815	20.7	430(640)				41
5C	5.5	70/0.32 (70/12.6mil)	3.1 (122mil)	0.220	5.6	0.886	22.5	544(810)	less than 3.56	more than 500	3000	41
6C						0.961	24.4	645(960)				36
10C						1.319	33.5	1062(1580)				31
12C						1.303	33.1	1021(1520)				28
3C	8	50/0.45 (50/17.7mil)	3.7 (146mil)	0.244	6.2	0.811	20.6	430(640)	less than 2.52	more than 400	3000	56
4C						0.882	22.4	531(790)				50
2C	14	88/0.45 (88/17.7mil)	4.9 (193mil)	0.291	7.4	0.874	22.2	517(770)	less than 1.43	more than 400	3000	91
3C						0.925	23.5	632(940)				80
4C						1.012	25.7	793(1180)				71
2C	22	7/20/0.45 (7/20/17.7mil)	6.8 (268mil)	0.402	10.2	1.126	28.6	840(1250)	less than 0.919	more than 300	3000	122
3C						1.197	30.4	1028(1530)				107
4C						1.346	34.2	1277(1900)				95
2C	38	7/34/0.45 (7/34/17.7mil)	8.8 (346mil)	0.480	12.2	1.339	34.0	1196(1780)	less than 0.541	more than 300	3000	167
3C						1.429	36.3	1505(2240)				142
4C						1.571	39.9	1888(2810)				129

Note:Six times of outer diameter is needed when you bend cables, and more diameter is needed when you bend cables repeatedly by cable reel, curtain, etc.

Allowable ampacity

The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30°C.

Allowable ampacity is calculated based on JCS0168.

Please multiply the following correction coefficient by the ambient temperature.

●Adjustment factors(at ambient temperature)

Ambient temperature(°C)	30	35	40	45	50	55	60	65	70	75	80
Adjustment factors	1.00	0.95	0.89	0.84	0.77	0.71	0.63	0.55	0.45	0.31	—