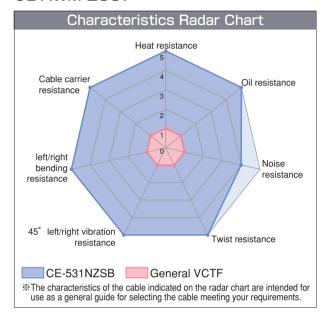
E-531NZSB

CE 05VVC4V5-K UL AWM 2587





Features

- Global-standard cables designed to CE, UL, cUL, <PS>E and GOST-R
- Oil resistance/Heat resistance (105°C)/Flexibility/Bending resistance, allowing use in mobile cable connection
- Conductor diameter 0.08mm/Flexible stranded conductor (containing reinforcement cord at its center)
- Noise resistance

Application

- Wiring cable carrier and robots
- Cable connection under oil environment
- Wiring of the portion requiring noise resistance

Certification/Marking

(€ (D) (PS>E* (C)

%The cable is subject to limitation of applicable sizes for each relevant standard. For details, refer to "Applicable Range" for each standard in [Technical Data] given below.

Technical Data

	CE	UL · cUL	Electrical Appliance and Material Safety Law <ps>E</ps>
Cable Type	05VVC4V5-K	AWM style 2587	VCTF
Voltage Rating	300/500V	600V	300V
Temperature Rating	70℃	90℃	75℃
Test Voltage	AC2000V • 15min	AC3000V • 1min	AC2000V • 1min
Flame Resistance	IEC 60332-1	VW-1, FT1	60° inclination
Applicable Standard	CENELEC HD 21.13 IEC 60227-7 (Not applicable to the cable outside diameter and transfer impedance)	UL 758 CAN/CSA-C22.2 No210.2	Electrical Appliance and Material Safety Law
Applicable Range	All sizes	All sizes	0.75~2.5mm²

Electrical Characteristics

2.5 (14)

Item		Nominal Cross-Sectional	Number of Cores	Allowable Current (A)												
	цеш	Area (mil) (AWG)	2~31	2	3	4	5	6	7	8	10	12	15	21	25	31
Condu		0.5 (20)	39.0	10	9	8	7	7	7	7	6	6	5	5	5	4
	Conductor Resistance (20°C)	0.75 (18)	26.0	13	11	10	9	9	9	8	8	7	7	6	6	5
		1 (18)	19.5	15	13	12	11	11	10	10	9	9	8	7	7	6
	Ω /km or below	1.5 (16)	13.3	20	17	15	14	14	13	13	12	11	10	9	9	8
		2.5 (14)	7.98	27	23	21	20	19	18	18	16	15	14	13	12	11
	Inculation Resistance (20°C)	$0.5(20) \sim 1.5(16)$	50													

Allowable Current (A) for the cable is based on calculation under aerial one-cable installation at ambient temperature of 30°C, not representing a guaranteed value.

Allowable current for the cable at ambient temperature above 30°C is to be determined by multiplying the current value by the appropriate current reduction factor specified in the following table for the ambient temperature.

The Allowable current values are those calculated by JCS197, but not guaranteed.

For details on Allowable current of the cable when used in Europe, refer to the applicable standard — IEC60364-5 (Electrical installation of building — Part 5: Selection and erection of electrical equipment — Section 523: Current-carrying capacities in wiring system).

JCS197··· Japanese Electric Wire and Cable Makers' Association's Standard "Allowable Current for Cabtyre Cable"

■Current Reduction Factor Table

Ambient Temperature (C)	30	35	40	45	50	55	60	65
Current Reduction Factor	1.00	0.94	0.87	0.79	0.71	0.61	0.5	0.35

MΩkm or above

Core Identification

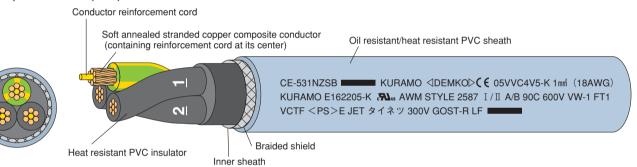
Core identification system	
Identification by Number (for Standard)	2cores — Identified by numbering in white color on black insulator surface 3cores or more — Identified by numbering in white color on black insulator surface + green/yellow
Identification by Color (for Custom Order)	2cores — Identified by brown and light blue 3cores — Identified by brown, light blue and green/yellow 4cores — Identified by brown, light blue, black and green/yellow

• Green/yellow: Yellow straight lines on green (in green/yellow color ratio of 60/40)

Cable Construction

Item	Configuration
Conductor	Soft annealed stranded copper composite (containing reinforcement cord at its center)
Insulator	Heat resistant PVC
Conductor stranding	Circular
Core wrapping tape	Tape wrap around cores if their number is 5 or above
Inner sheath	Oil resistant/heat resistant PVC (black)
Shield	Tin-plated soft annealed copper braid
Sheath	Oil resistant/heat resistant PVC (light gray)

■Example: 3 core (1mm) 18AWG cable



Cable Outside Diameter/Weight

Nominal cross-sectional area (mil) < AWG>	(m) <awg> Number of cores</awg>												
Conductor count/wire diameter	2	3	4	5	6	7	8	10	12	15	21	25	31
0.5 (6/18/0.08)	* 11.0	* 11.5	12.5	* 14.0	* 14.5	* 15.5	16.5	* 18.0	* 17.5	* 19.0	* 23.5	* 24.5	* 27.0
<20>	* 160	* 175	205	* 235	265	* 295	330	* 390	* 400	* 475	675	750	* 880
0.75 (6/28/0.08)	* 12.0	* 12.5	13.5	* 15.0	* 16.0	* 17.0	18.0	* 21.0	* 20.0	* 23.0	* 26.0	* 27.0	*30.0
<18>	* 190	210	250	* 285	* 325	* 360	395	* 510	* 505	* 660	* 855	* 945	*1130
1 (6/35/0.08)	* 12.5	* 13.0	14.0	* 15.5	* 16.5	* 17.5	19.0	* 21.0	20.5	* 23.5	* 27.5	*28.0	31.5
<18>	* 205	* 235	270	* 310	* 350	* 390	445	* 530	* 560	* 710	930	*1040	*1250
1.5 (6/52/0.08)	* 13.5	* 14.0	15.0	* 16.5	* 18.0	* 19.0	20.5	* 24.0	23.5	* 25.5	29.5	*32.0	34.5
<16>	245	280	320	* 360	* 415	* 480	540	* 700	* 745	* 875	*1160	*1330	*1570
2.5 (6/86/0.08)	* 15.0	* 15.0	16.0	* 18.0	* 19.0	* 21.0	23.0	26.5	25.5	*28.0	*33.0	*34.5	*37.5
<14>	* 290	* 335	395	* 455	* 520	* 600	720	890	945	*1120	*1510	*1710	*2030

Upper: Standard cable outside diameter (Approx.mm) Lower: Approximate weight (kg/km)

indicates specifications for custom order production.