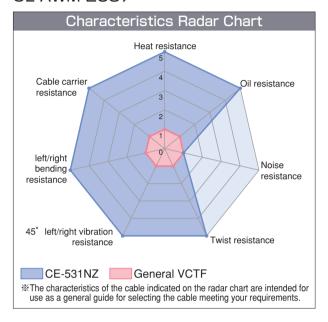
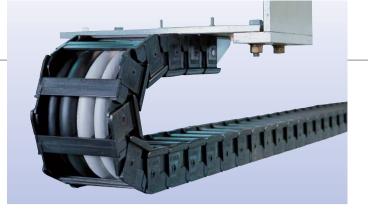
CE-531NZ

CE 05VV5-F 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)

Application

- Cable carrier/robot wiring
- Cable connection under oil environment

Certification/Marking

(€ (D) c¶Us <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	05VV5-F	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 cable outside diameter)	UL 758 CAN/CSA-C22.2 No210.2	Electrical Appliance and Material Safety Law
Applicable Range	All sizes	All sizes	0.75~2.5mm

Electrical Characteristics

ltom	Nominal Cross-Sectional	Number of Cores		Allowable Current (A)											
Item Area (mil) (A)	Area (mm²) (AWG)	2~31	2	3	4	5	6	7	8	10	12	15	21	25	31
	0.5 (20)	39.0	10	9	8	7	7	7	7	6	6	5	5	5	4
Conductor Resistance (20°C) Ω /km or below	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
	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
L. L. L. D L (00°0)	0.5(20)~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

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)
Insulato	Heat resistant PVC
Conductor stranding	Circular
Core wrapping tape	Tape wrap around cores if their number is 5 or above
Sheath	Oil resistant/heat resistant PVC (light gray)

■Example: 3 core (1mm²) 18AWG cable

Conductor reinforcement cord

Soft annealed stranded copper composite conductor (containing reinforcement cord at its center)

CE-531NZ

KURAMO E162205

VCTF < PS > E JET

Oil resistant/heat resistant PVC sheath

CE-531NZ KURAMO 〈DEMKO〉(€ 05VV5-F 1mm (18AWG) KURAMO E162205-K AU STYLE 2587 I/II A/B 90C 600V VW-1 FT1 VCTF 〈PS〉E JET タイネツ 300V GOST-R LF

Heat resistant PVC insulator

Cable Outside Diameter/Weight

Nominal cross-sectional area (mil) < AWG>		Number of cores												
Conductor count/wire diameter	2	3	4	5	6	7	8	10	12	15	21	25	31	
0.5 (6/18/0.08)	9.0	9.4	10.5	* 11.5	12.5	* 13.0	14.0	* 16.0	15.5	* 16.5	19.5	* 22.0	24.0	
<20>	100	110	130	145	165	* 185	215	260	265	320	430	* 550	650	
0.75 (6/28/0.08)	9.9	10.5	11.5	* 12.5	13.5	* 14.5	15.5	18.5	17.5	19.0	23.5	24.5	27.0	
<18>	120	140	165	* 180	210	240	270	345	345	420	630	710	850	
1 (6/35/0.08)	10.5	11.0	12.0	* 13.0	14.0	* 15.0	16.5	* 18.0	18.0	* 19.5	24.5	25.5	28.5	
<18>	135	150	180	* 205	235	* 265	300	* 370	390	470	690	* 790	960	
1.5 (6/52/0.08)	11.0	12.0	13.0	* 14.0	15.5	* 16.5	18.0	* 20.5	19.5	* 23.0	26.5	*28.5	31.5	
<16>	160	190	225	245	290	330	410	465	500	660	890	*1020	1240	
2.5 (6/86/0.08)	12.0	13.0	14.0	* 15.5	17.0	* 18.5	19.5	* 23.5	23.0	* 25.0	29.5	*31.5	34.0	
<14>	200	240	290	* 325	380	* 440	490	* 675	720	* 870	1190	*1390	1660	

Upper: Standard cable outside diameter (Approx.mm)

Lower: Approximate weight (kg/km)

indicates specifications for custom order production.