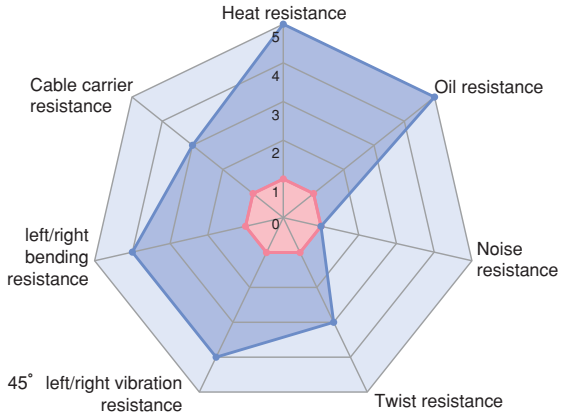
CE-531※

CE H05VV5-F(0.5～2.5㎟) A05VV5-F(4～95㎟)
UL AWM 2587(0.5～6㎟)
CCC 227 IEC 75(RVVY)(0.5～2.5㎟)

Characteristics Radar Chart



※The characteristics of the cable indicated on the radar chart are intended for use as a general guide for selecting the cable meeting your requirements.

Features

- Global-standard cables designed to CE&CCC (equal to or less than 2.5㎟) &UL・cUL (equal to or less than 6㎟) &<PS>E (0.75-4㎟) &GOST-R
- Oil resistance/Heat resistance (105℃)/Flextiblity, allowing use in mobile cable connection
- Fine conductor

Application

- Internal/external cable connection to electrical equipment
- Cable connection under oil environment

Certification/Marking

※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	CCC	Electrical Appliance and Material Safety Law<PS>E
Cable Type	0.5～2.5㎟ : H05VV5-F 4～95㎟ : A05VV5-F	AWM style 2587	227 IEC 75(RVVY)	VCTF
Voltage Rating	300/500V	600V	300/500V	300V
Temperature Rating	70℃	90℃	70℃	75℃
Test Voltage	AC2000V・15min	AC3000V・1min	AC2000V・5min	AC2000V・1min
Flame Resistance	IEC 60332-1	VW-1, FT1	IEC 60332-1	60° inclination
Applicable Standard	CENELEC HD 21.13 IEC 60227-7	UL 758 CAN/CSA-C22.2 No210.2	GB5023.7 IEC 60227-7	Electrical Appliance and Material Safety Law
Applicable Range	All sizes	0.5～6㎟ (20～10AWG)	0.5-2.5㎟, only types designed for insulator identification by numbering	0.75～4㎟

Electrical Characteristics

Item	Nominal Cross-Sectional Area(㎟) (AWG)	Number of Cores	Allowable Current (A)												
		2～31	2	3	4	5	6	7	8	10	12	15	21	25	31
Conductor Resistance (20℃) Ω/km or below	0.5 (20)	39.0	10	9	8	7	7	7	7	6	6	5	5	5	4
	0.75 (19)	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
	4 (12)	4.95	36	31	28	26	25	24							
	6 (10)	3.30	47	40	36	34	32	31							
	10	1.91	67	57	51	48	45	43							
	16	1.21	89	76	68										
	25	0.780	118	101	91										
	35	0.554	145	123	111										
	50	0.386	181	153	138										
	70	0.272	225	191	172										
	95	0.206	267	226	203										
Insulation Resistance (20℃) MΩ km or above	0.5 (20) ～1.5 (16)	50													
	2.5 (14) ～4 (12)	40													
	6 (10) ～10	30													
	16～95	20													

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

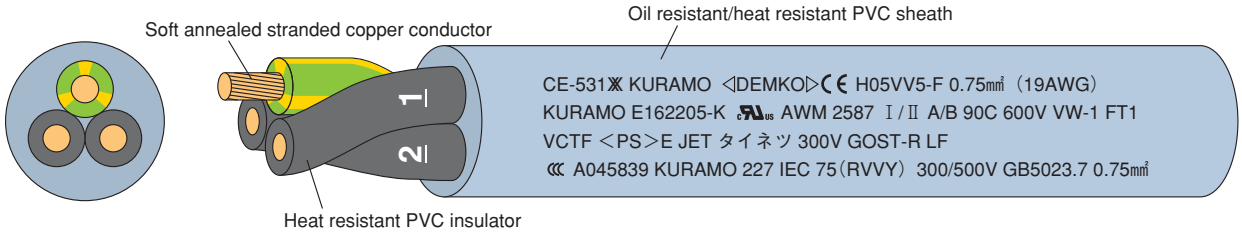
Core identification system	
Identification by Number (for Standard)	2cores – Identified by numbering in white color on black insulator surface 3cores or more – Identified by numbering in white color on black insulator surface + green/yellow
Identification by Color (for Custom Order)	2cores – Identified 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
Insulator	Heat resistant PVC
Conductor stranding	Circular
Core wrapping tape	Tape wrap around cores if their number and size are 5 or above and 6㎟ or above, respectively
Sheath	Oil resistant/heat resistant PVC (light gray)

■Example: 3 core (0.75㎟) 19AWG cable



Cable Outside Diameter/Weight

Nominal cross-sectional area (㎟) ＜AWG＞ Conductor count/wire diameter	Number of cores														
	2	3	4	5	6	7	8	10	11	12	15	16	21	25	31
0.5 (48/0.12) ＜20＞	※ 6.2 55	※ 6.5 65	※ 7.1 80	※ 8.0 95	※ 8.7 105	※ 9.4 120	※ 10.5 135	※ 11.0 160	※ 11.0 175	※ 11.5 190	※ 13.0 225	※ 13.5 240	※ 15.0 300	※ 16.5 325	※ 17.5 430
0.75 (67/0.12) ＜19＞	6.7 60	7.1 75	7.7 90	※ 8.4 105	9.3 115	※ 9.9 140	11.0 155	※ 12.0 190	12.0 190	※ 12.5 220	※ 13.5 275	14.0 280	16.5 365	17.5 425	18.5 520
1 (90/0.12) ＜18＞	7.1 75	7.5 85	8.2 105	※ 9.0 125	10.0 140	※ 10.5 170	12.0 190	※ 13.0 230	13.0 240	※ 13.5 265	※ 14.5 330	15.0 340	17.5 440	18.5 520	20.0 630
1.5 (135/0.12) ＜16＞	8.1 100	8.6 120	9.4 145	※ 10.5 175	12.0 200	※ 13.0 235	14.0 265	※ 15.0 330	15.5 350	※ 16.0 370	※ 17.5 460	18.0 485	21.0 630	23.0 790	25.0 940
2.5 (98/0.18) ＜14＞	9.5 140	10.5 180	11.5 225	※ 12.5 265	※ 14.0 300	※ 15.5 360	17.0 405	※ 18.5 500	18.5 530	※ 19.0 570	※ 21.0 750	21.5 750	※ 25.5 1000	※ 27.5 1200	※ 29.0 1450
4 (75/0.26) ＜12＞	※ 11.0 195	11.5 245	13.0 310	※ 14.5 375	※ 16.0 400	※ 17.5 480									
6 (112/0.26) ＜10＞	※ 12.5 220	13.5 305	14.5 390	※ 16.5 470	※ 18.0 580	※ 19.5 690									
10 (7/28/0.26)	※ 15.5 450	17.0 510	19.0 660	※ 21.0 800	※ 23.0 950	※ 25.0 1100									
16 (7/28/0.32)	※ 18.5 620	20.0 710	22.0 930												
25 (7/44/0.32)	※ 23.5 960	25.0 1100	28.0 1450												
35 (19/23/0.32)	※ 26.5 1300	※ 28.5 1500	31.5 1950												
50 (19/33/0.32)	※ 31.0 1600	※ 33.0 2100	37.0 2750												
70 (19/23/0.45)	※ 35.5 2100	※ 38.0 2700	42.0 3600												
95 (19/31/0.45)	※ 41.0 2500	※ 42.5 3550	※ 47.0 4650												

Upper: Standard cable outside diameter (Approx.㎜)
Lower: Approximate weight (kg/km)
※ indicates specifications for custom order production.