

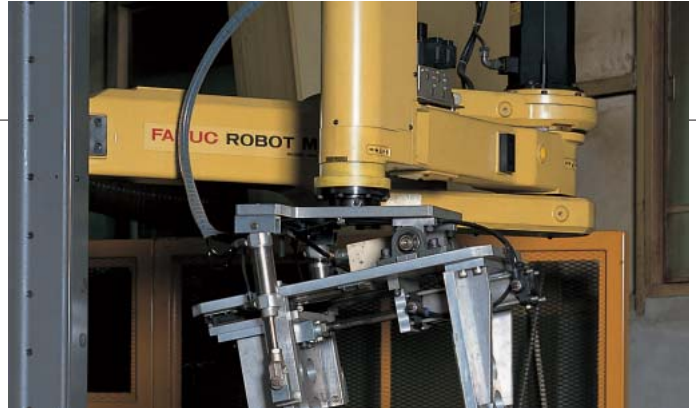
CE-362SB

CE H05VVC4V5-K (0.5~2.5mm²)

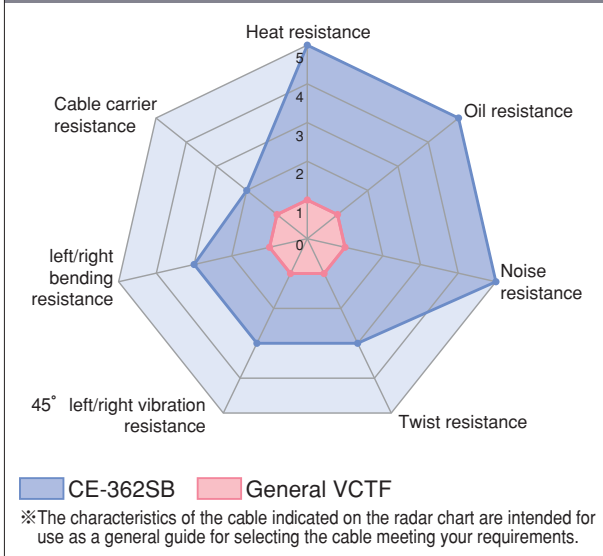
A05VVC4V5-K (4~25mm²)

UL AWM 2587 (0.5~6mm²)

CCC 227 IEC 74(RVVYP) (0.5~2.5mm²)



Characteristics Radar Chart



Features

- Global-standard cables designed to CE&CCC (equal to or less than 2.5mm²) & UL · cUL (equal to or less than 6mm²) & <PS>E (0.75-4mm²) & GOST-R
- Oil resistance/Heat resistance (105°C)/Flexibility
- Noise resistance (allowing effective use for cable connection requiring protection against EMC)
- Low transfer impedance (250mΩ/m or less at 30MHz)

Application

- Internal/external cable connection to electrical equipment
- Cable connection under oil environment
- Wiring of the portion requiring noise resistance

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	0.5~2.5mm ² : H05VVC4V5-K 4~25mm ² : A05VVC4V5-K	AWM style 2587	227 IEC 74 (RVVYP)	VCTF
Voltage Rating	300/500V	600V	300/500V	300V
Temperature Rating	70°C	90°C	70°C	75°C
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	0.5~6mm ² (20~10AWG)	0.5-2.5mm ² , only types designed for insulator identification by numbering	0.75~4mm ²

Electrical Characteristics

Item	Nominal Cross-Sectional Area (mm ²) (AWG)	Number of Cores	Allowable Current (A)												
			2~31	2	3	4	5	6	7	8	10	12	15	21	25
Conductor Resistance (20°C) 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							
Insulation Resistance (20°C) MΩ km or above	0.5 (20)~1.5 (16)	50													
	2.5 (14)~4 (12)	40													
	6 (10)~10	30													
	16~25	20													

- 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 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

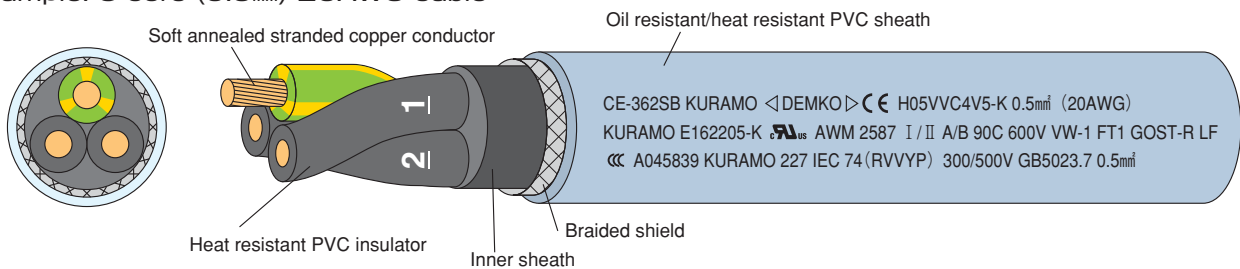
Core identification system	
Identification by Number (for Standard)	2cores – Identified by numbering in white color on black insulator surface 3cores or more – Identified by numbering in white color on black insulator surface + green/yellow
Identification by Color (for Custom Order)	2cores - Identified 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
Insulator	Heat resistant PVC
Conductor stranding	Circular
Core wrapping tape	Tape wrap around cores if their number and size are 5 or above and 6mm ² or above, respectively
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 (0.5mm²) 20AWG cable



Cable Outside Diameter/Weight

Nominal cross-sectional area (mm ²) <AWG> Conductor count/wire diameter	Number of cores												
	2	3	4	5	6	7	8	10	12	15	21	25	31
0.5 (22/0.18) <20>	8.5 110	8.8 120	9.4 135	* 10.5 150	* 11.5 175	12.0 200	* 13.0 235	14.0 255	* 14.5 295	15.5 350	18.0 450	* 20.0 500	20.5 620
0.75 (30/0.18) <19>	8.8 120	9.2 130	10.0 155	* 11.0 175	* 12.0 195	13.0 220	* 13.5 250	15.0 300	* 15.5 340	16.5 395	19.0 515	* 21.0 620	23.0 770
1 (40/0.18) <18>	9.2 130	9.8 150	10.5 175	* 11.5 195	* 12.5 225	13.5 265	* 14.5 290	15.5 350	* 17.0 380	17.5 460	20.5 620	* 22.5 800	24.0 900
1.5 (60/0.18) <16>	10.5 165	11.0 185	12.0 225	* 13.5 270	* 14.5 300	15.5 350	* 16.5 390	18.0 470	* 19.0 510	20.5 610	23.5 825	* 26.0 1000	28.0 1350
2.5 (50/0.25) <14>	12.0 225	12.5 260	14.0 320	* 16.0 390	* 17.0 435	18.5 510	* 20.0 570	21.5 690	* 23.0 790	25.0 930	28.5 1250	* 31.0 1500	33.0 1850
4 (75/0.26) <12>	* 13.4 290	* 14.5 350	15.5 455	* 17.0 530	* 19.0 590	* 20.5 680							
6 (112/0.26) <10>	* 15.5 330	* 16.5 425	17.5 530	* 19.5 630	* 21.5 720	* 23.5 880							
10 (7/28/0.26)	* 19.0 550	* 20.0 700	* 22.5 860	* 24.5 980	* 26.5 1100	* 29.0 1250							
16 (7/28/0.32)	* 22.0 750	* 23.5 850	* 25.0 1100										
25 (7/44/0.32)	* 27.0 1300	* 28.5 1450	* 32.0 1900										

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