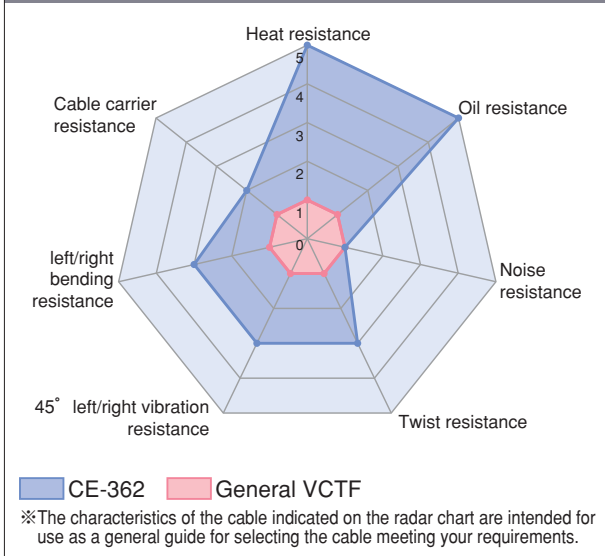


# CE-362

CE H05VV5-F(0.5~2.5mm<sup>2</sup>) A05VV5-F(4~95mm<sup>2</sup>)  
 UL AWM 2587(0.5~6mm<sup>2</sup>)  
 CCC 227 IEC 75(RVVY)(0.5~2.5mm<sup>2</sup>)



Characteristics Radar Chart



## Features

- Global-standard cables designed to CE&CCC (equal to or less than 2.5mm<sup>2</sup>) &UL · cUL (equal to or less than 6mm<sup>2</sup>) &<PS>E (0.75-4mm<sup>2</sup>) &GOST-R
- Oil resistance/Heat resistance (105°C)/Flexibility

## 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	0.5~2.5mm <sup>2</sup> : H05VV5-F 4~95mm <sup>2</sup> : A05VV5-F	AWM style 2587	227 IEC 75(RVVY)	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 <sup>2</sup> (20~10AWG)	0.5-2.5mm <sup>2</sup> , only types designed for insulator identification by numbering	0.75~4mm <sup>2</sup>

## Electrical Characteristics

Item	Nominal Cross-Sectional Area (mm <sup>2</sup> ) (AWG)	Number of Cores	Allowable Current (A)																
			2~60	2	3	4	5	6	7	8	10	12	15	21	25	31	41	51	60
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	4	4	3	
	0.75 (19)	26.0	13	11	10	9	9	9	8	8	7	7	6	6	5	5	5	4	
	1 (18)	19.5	15	13	12	11	11	10	10	9	9	8	7	7	6	6	5	5	
	1.5 (16)	13.3	20	17	15	14	14	13	13	12	11	10	9	9	8	7	7	7	
	2.5 (14)	7.98	27	23	21	20	19	18	18	16	15	14	13	12	11	10	10	9	
	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°C) 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°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

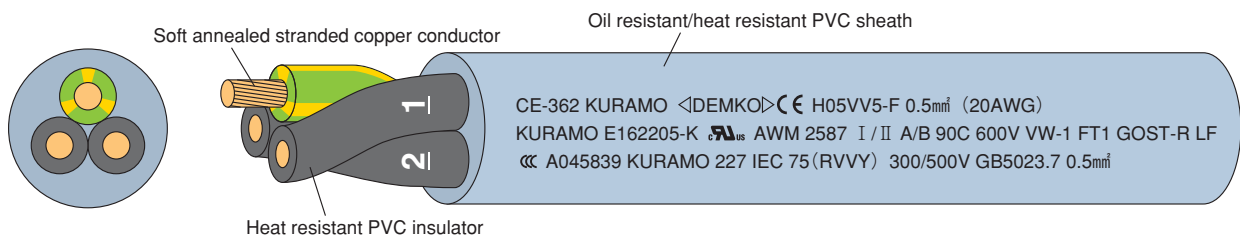
Core identification system	
Identification by Number (for Standard)	2cores – Identified by numbering in white color on black insulator surface 3cores or more – Identified by numbering in white color on black insulator surface + green/yellow
Identification by Color (for Custom Order)	2cores – Identified 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 <sup>2</sup> or above, respectively
Sheath	Oil resistant/heat resistant PVC (light gray)

### Example: 3 core (0.5mm<sup>2</sup>) 20AWG cable



## Cable Outside Diameter/Weight

Nominal cross-sectional area (mm <sup>2</sup> ) <AWG> Conductor count/wire diameter	Number of cores															
	2	3	4	5	6	7	8	10	12	15	21	25	31	41	51	60
0.5 (22/0.18) <20>	6.2 55	6.5 60	7.1 75	* 7.9 90	* 8.8 100	9.4 115	* 10.5 130	11.5 155	12.0 180	13.0 220	15.0 300	16.5 350	17.5 430	20.5 560	* 23.5 700	* 24.5 840
0.75 (30/0.18) <19>	6.7 60	7.1 70	7.7 85	* 8.5 100	* 9.4 115	10.5 135	* 11.0 150	12.0 180	12.5 215	13.5 270	16.5 365	17.5 425	19.0 520	22.5 710	* 24.0 795	* 26.0 1050
1 (40/0.18) <18>	7.1 70	7.5 85	8.2 100	* 9.0 120	* 10.2 140	11.0 160	* 12.0 185	13.0 225	13.5 260	14.5 325	17.5 435	19.0 510	* 20.0 620	* 23.5 800	* 26.5 1100	* 28.0 1250
1.5 (60/0.18) <16>	8.1 95	8.6 120	9.4 145	* 11.0 170	* 12.0 195	13.0 230	14.0 260	15.0 325	16.0 365	17.5 455	20.5 620	* 22.0 710	* 25.0 930	* 28.0 1300	* 31.0 1600	* 33.0 1850
2.5 (50/0.25) <14>	9.5 140	10.5 175	11.5 215	* 13.0 255	* 14.5 295	16.0 350	* 17.0 400	18.5 490	19.0 560	* 21.0 740	25.5 980	* 27.5 1150	* 29.0 1400	* 33.5 1950	* 37.0 2300	* 39.0 2600
4 (75/0.26) <12>	11.0 190	11.5 240	13.0 300	* 14.5 360	* 16.0 390	17.5 470										
6 (112/0.26) <10>	12.5 215	13.5 305	15.0 385	* 16.5 460	* 18.0 570	19.5 680										
10 (7/28/0.26)	* 16.0 440	* 17.0 500	19.0 650	* 21.0 780	* 23.0 940	* 25.5 1050										
16 (7/28/0.32)	* 18.5 620	* 20.0 710	22.0 930													
25 (7/44/0.32)	* 23.5 950	* 25.0 1100	28.0 1450													
35 (19/23/0.32)	* 26.5 1350	* 28.5 1500	* 31.5 1950													
50 (19/33/0.32)	* 31.0 1600	* 33.5 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	* 43.0 3550	* 47.5 4600													

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