

APPLICATION AND DESCRIPTION

H05V-K

These insulated wires are determined for installation to the inside of apparatus as well as for the protective laying to the lightings, in dry rooms, in production facilities, switch and distributors boards, in tubes, under and surface mounting of plasters.

H07V-K

These are not suitable to be installed for laying in tubes, under and surface mounting of plaster and also in closed installation conduits.

These are not allowed to install for direct laying on cable trays, channel or tanks. These types are permitted for the inner wiring of equipment, distributor and switchboards and also for protective laying to the lightings with a nominal voltage up to 1000 V alternating current or up to 750 V direct current against earth.

STANDARD AND APPROVAL

NF C 32-201-3

CE Low Voltage Directive 73/23/EEC and 93/68/EEC

ROHS compliant



CABLE CONSTRUCTION

Fine bare copper strands

Strands to VDE-0295 Class-5, IEC 60228 Class-5

Special PVC TI1 core insulation

Cores to VDE-0293 colors on chart

TECHNICAL CHARACTERISTICS

WORKING VOLTAGE	450/750V
TEST VOLTAGE	2500 volts
FLEXING BENDING RADIUS	12.5 x Ø
STATIC BENDING RADIUS	12.5 x Ø
FLEXING TEMPERATURE	-5° C to +70° C

STATIC TEMPERATURE	-30° C to +80° C
SHORT CIRCUIT TEMPERATURE	+160° C
FLAME RETARDANT	NF C 32-070
INSULATION RESISTANCE	10 MΩ x km

CABLE PARAMETER

H05V-K					
AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM ²	MM	MM	KG/KM	KG/KM
20(16/32)	1 x 0.5	0.6	2.1	4.9	10
18(24/32)	1 x 0.75	0.6	2.4	7.2	13
17(32/32)	1 x 1	0.6	2.6	9.6	15
H07V-K					
AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM ²	MM	MM	KG/KM	KG/KM
16(30/30)	1 x 1.5	0,7	3.1	14.4	20
14(50/30)	1 x 2.5	0,8	3.6	24.0	31
12(56/28)	1 x 4	0,8	4.3	38.0	48
10(84/28)	1 x 6	0,8	4.9	58.0	69
8(80/26)	1 x 10	1,0	6.4	96.0	121
6(128/26)	1 x 16	1,0	8.1	154.0	211
4(200/26)	1 x 25	1,2	9.8	240	303
2 (280/26)	1 x 35	1,2	11.1	336	417
1 (400/26)	1 x 50	1,4	13.1	480	539
2/0 (356/24)	1 x 70	1,4	15.5	672	730
3/0 (485/24)	1 x 95	1,6	17.2	912	900
4/0 (614/24)	1 x 120	1,6	19.7	1152	1135

300 MCM (765/24)	1 x 150	1,8	21.3	1440	1410
350 MCM (944/24)	1 x 185	2,0	23.4	1776	1845
500MCM(1225/24)	1 x 240	2,2	27.1	2304	2270

APPLICATION AND DESCRIPTION**H05 V-U/(H)05 V-U**

These insulated wires are determined for the installation to the inside of apparatus as well as for the protective laying to the lightings, in dry rooms, in production facilities, switch and distributor boards, in tubes, under and surface mounting of plasters.

H07 V-U/(H)07 V-U

These insulated wires are suitable for laying tubes, under and surface mounting of plasters and also in closed installation conduits. These are not allowed to install for direct laying in cable trays, channels or tanks. These types are permitted for the inner wiring of equipment, distributor and switchboards and also for protective laying to the lightings with a nominal voltage up to 1000 V alternating current or up to 750 V direct current against ground.

STANDARD AND APPROVAL

HD 21.3 S3, VDE-0281 Part-3, CEI20-20/3,

CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

**CABLE CONSTRUCTION**

- Solid bare copper single wire
- Solid to DIN VDE 0295 cl-1 and IEC 60228 cl-1
- Special PVC TI1 core insulation
- Cores to VDE-0293 colors on chart
- H05V-U (20, 18 & 17 AWG)
- H07V-U (16 AWG and Larger)

TECHNICAL CHARACTERISTICS

- Working voltage: 300/500v (H05V-U)
- Working voltage: 450/750v (H07V-U)
- Test voltage: 2000V(H05V-U)/2500V (H07V-U)
- Flexing bending radius: 15 x Ø
- Static bending radius: 15 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -30° C to +90° C
- Short circuit temperature: +160° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 10 MΩ x km

CABLE PARAMETER

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ²	NOMINAL THICKNESS OF INSULATION MM	NOMINAL OVERALL DIAMETER MM	NOMINAL COPPER WEIGHT KG/KM	NOMINAL WEIGHT KG/KM
20	1 x 0.5	0.6	2.1	4.8	9
18	1 x 0.75	0.6	2.2	7.2	11
17	1 x 1	0.6	2.4	9.6	14
16	1 x 1.5	0.7	2.9	14.4	21
14	1 x 2.5	0.8	3.5	24.0	33
12	1 x 4	0.8	3.9	38.0	49
10	1 x 6	0.8	4.5	58.0	69
8	1 x 10	1.0	5.7	96.0	115

APPLICATION AND DESCRIPTION

These cables are preferably for installation indoors, in cable ducts and in industrial plants or switching stations, under ground installation. Can be used in switchboards and distributor boards or where a thicker strand of multi-wire is required. Found in electronic and electrical equipment and switchgear cabinets designed for export to a European country and for MRO replacement of European made equipment wire.

STANDARD AND APPROVAL

HD 21.3 S3

BS 6004

VDE-0281 Part-3

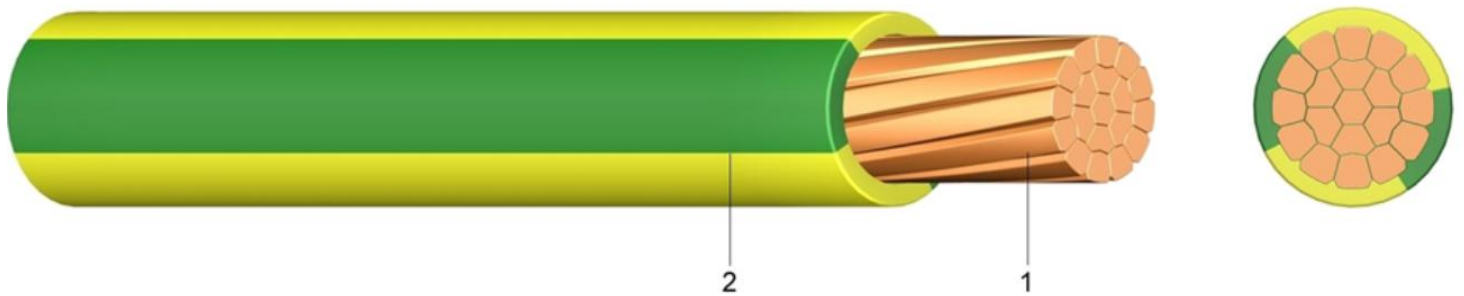
CEI 20-20/3

CEI 20-35 (EN60332-1)

CEI 20-52

CE Low Voltage Directive 73/23/EEC and 93/68/EEC

ROHS compliant



CABLE CONSTRUCTION

Bare copper solid/strands conductor

Strands to VDE-0295 Class-2, IEC 60228 CI-2

Special PVC TI1 core insulation

Cores to VDE-0293 colors on chart

TECHNICAL CHARACTERISTICS

WORKING VOLTAGE	300/500 volts(H05V-R), 450/750 volts(H07V-R)
TEST VOLTAGE	2000 volts(H05V-R), 2500 volts(H07V-R)
FLEXING BENDING RADIUS	15 x Ø
STATIC BENDING RADIUS	15 x Ø
FLEXING TEMPERATURE	-5 °C to +70 °C
STATIC TEMPERATURE	-30 °C to +80 °C

SHORT CIRCUIT TEMPERATURE	+160 °C
FLAME RETARDANT	IEC 60332.1
INSULATION RESISTANCE	10 MΩ x km

CABLE PARAMETER

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM²	MM	MM	KG/KM	KG/KM
H05V-R					
20(7/29)	1 x 0.5	0.6	2.2	4.8	9
18(7/27)	1 x 0.75	0.6	2.4	7.2	12
17(7/26)	1 x 1	0.6	2.6	9.6	15
H07V-R					
16(7/24)	1 x 1.5	0.7	3.0	14.4	23
14(7/22)	1 x 2.5	0.8	3.6	24	35
12(7/20)	1 x 4	0.8	4.2	39	51
10(7/18)	1 x 6	0.8	4.7	58	71
8(7/16)	1 x 10	1	6.1	96	120
6(7/14)	1 x 16	1	7.2	154	170
4(7/12)	1 x 25	1.2	8.4	240	260
2(7/10)	1 x 35	1.2	9.5	336	350
1(19/13)	1 x 50	1.4	11.3	480	480
2/0(19/11)	1 x 70	1,4	12.6	672	680
3/0(19/10)	1 x 95	1,6	14.7	912	930
4/0(37/12)	1 x 120	1,6	16.2	1152	1160
300MCM(37/11)	1 x 150	1,8	18.1	1440	1430
350MCM(37/10)	1 x 185	2,0	20.2	1776	1780
500MCM(61/11)	1 x 240	2,2	22.9	2304	2360
	1 x 300	2.4	24.5		2940

	1 x 400	2.6	27.5		3740
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