

- LOW VOLTAGE FIRE RESISTANT CABLES
- ✓ FLEXIBLE CABLES
- MEDIUM VOLTAGE HIGH VOLTAGE EXTRA HIGH VOLTAGE CABLES
- LOW VOLTAGE POWER & INSTRUMENTATION CABLES

ASIAN WIRE & CABLE

FLEXIBLE CABLES

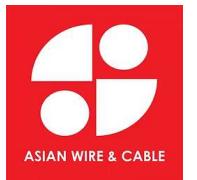
Asian Wire and Cable



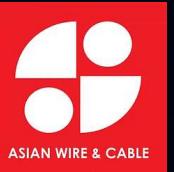
Asian Wire and Cable

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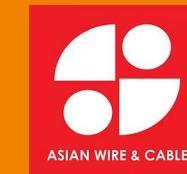
ASIAN WIRE & CABLE



UNPARALLELED SUCCESS⁷
SINCE 1993

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- MEDIUM VOLTAGE HIGH VOLTAGE EXTRA HIGH VOLTAGE CABLES
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CONTENTS



OUR VISION WORLD LEADER
THAT SETS THE BECNHMARK FOR
QUALITY AND EXCELLENCE

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About Us



TEAMWORK

INNOVATION

WIN-WIN

Established in 1993, Asian Wire and Cable specializes in manufacturing wires and cables. The company is also an enterprise collection of R & D, Sales and Services. The main products include Power Cables, Electrical Cables, Control Cables, Housing Wires (CCC Approval), Mineral Insulation Cables, Prefabricated Branch Cables.

Our mission is to consistently engineer, produce, and deliver exceptional cable solutions that empower connectivity across industries and geographies. By adhering to the highest standards of innovation, craftsmanship, and environmental responsibility, we aim to exceed our customers' expectations and contribute to the advancement of global technological progress. Through collaborative partnerships, cutting-edge research, and a commitment to continuous improvement, we strive to create lasting value for our customers, employees, stakeholders, and the communities we serve. Our unwavering dedication to excellence drives us forward on the path to becoming the foremost global leader for superior cables that power the connections of today and tomorrow.

WORLD-CLASS MANUFACTURING

We are committed to bring world-class manufacturing to our customers through standardization of processes and manufacturing high quality products. Striving to improve and standardize our Production models and business processes, we also aim to reduce lead time and manufacturing costs of building materials.

UNPARALLELED CUSTOMER SERVICE

In this highly competitive industry, we are also driven to focus on our R&D in order to fulfil an extensive range of our customers' requirements and standards.

STRINGENT QUALITY CONTROL

We believe that our strong customers' satisfaction comes from our "Best or Nothing" quality control. We have a strong quality control system to ensure that we complete every project to the highest industry standards. We have a strong quality control system that begins from the purchasing, warehouse, production, packaging, and transportation to ensure professional quality is maintained throughout.

With this commitment, we are able to assist our customers to manufacture cables of various standards that include CCC, ISO9002, CE, ROHS, VDE, TIR, SAA, SON CAP, SIRIM, UL, CSA, JET, SAA, SEMKO, NEMKO, FIMKO, DEMKO, SEV, OVE, CEBEC, CNS, PSB, etc. At Asian Wire and Cable, we believe that with quality comes longevity and with customer satisfaction comes growth.



Our Mission



Win-win



Innovation



Teamwork



Our mission is to consistently engineer, produce, and deliver exceptional cable solutions that empower connectivity across industries and geographies. By adhering to the highest standards of innovation, craftsmanship, and environmental responsibility, we aim to exceed our customers' expectations and contribute to the advancement of global technological progress. Through collaborative partnerships, cutting-edge research, and a commitment to continuous improvement, we strive to create lasting value for our customers, employees, stakeholders, and the communities we serve. Our unwavering dedication to excellence drives us forward on the path to becoming the foremost global leader for superior cables that power the connections of today and tomorrow.

OUR BUSINESS PHILOSOPHY

WE VALUE RELATIONSHIPS &
SUSTAIN TRUST WITH OUR
VALUED STAKEHOLDERS



Production Equipment



Good Service with Sincerity

Production Equipment





Quality Inspection Center



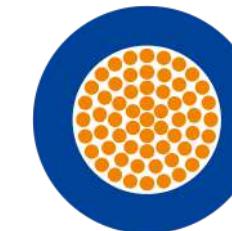
Good Service
with Sincerity



Product Details

- P02 300/500V & 450/750V, 70°C SINGLE CORE PVC FLEXIBLE WIRE HO5V-K & HO7V-K
- P03 600/1000V 105°C SINGLE CORE PVC FLEXIBLE WIRE
- P04 600/1000V 105°C SINGLE CORE LSHF FLEXIBLE WIRE
- P05 600/1000V 120°C SOLAR PV1-F HALOGEN FREE PV CABLES
- P06 - P08 300/500V, LSHF – JZ/OZ CONTROL FLEXIBLE CABLES
- P09 SINGLE CORE PVC FLEXIBLE CABLES BS 2004, 250/440V
- P10 CIRCULAR SHEATHED FLEXIBLE CABLES BS 2004, 250/440V
- P11 300/300V 70°C, PVC INSULATED TWISTED PAIR FLEXIBLE CABLES
- P12 300/300V, 70°C, LIGHT DUTY PVC INSULATED & SHEATHED FLEXIBLE CABLES H03VV-F (CIRCULAR) & H03VVH2-F (PARALLEL)
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- P22 - P23 300/500V CY-JB/OB COLOUR CODED TRANSPARENT SHEATH
- P24 - P25 300/500V CY-JZ NUMBER CODED GREY SHEATH
- P26 500V, 180°C SINGLE CORE SIF-SILICONE RUBBER FLEXIBLE CABLES
- P27 - P28 500V, 180°C SIHF-SILICONE RUBBER INSULATED & SHEATHED FLEXIBLE CABLES
- P29 HO5RN-F ORDINARY DUTY RUBBER CABLES
- P30 - P32 HO7RN-F HEAVY DUTY RUBBER CABLES
- P33 - P34 HO7RN8-F HEAVY DUTY WATER RESISTANT RUBBER CABLES
- P35 ARC WELDING ELECTRODE RUBBER CABLES
- P36 - P38 600/1000V, 105°C CVV CONTROL FLEXIBLE CABLES
- P39 600/1000V, 105°C VCT CONTROL FLEXIBLE CABLES
- P40 300V, 70°C, VFF PVC INSULATED FLAT FLEXIBLE CABLES
- P41 - P42 JV-R, 90°C XLPE INSULATED PVC SHEATHED FLEXIBLE POWER CABLES
- P43 600/1000V, PNR/PNR WELDING & POWER FLEXIBLE CABLES
- P44 250/440V, 105°C SINGLE CORE PVC FLEXIBLE CABLES AS/NZS 3191
- P45 250/250V, 90°C LIGHT DUTY PVC INSULATED & SHEATHED CIRCULAR FLEXIBLE CABLES AS/NZS 3191
- P46 250/440V, 90°C ORDINARY DUTY PVC INSULATED & SHEATHED CIRCULAR FLEXIBLE CABLES AS3191
- P47 600/1000V, 105°C SINGLE CORE PVC FLEXIBLE CABLES AS/NZS 3191
- P48 600/1000V, 105°C HEAVY DUTY PVC INSULATED & SHEATHED CIRCULAR FLEXIBLE CABLES AS/NZS 3191
- P49-P58 TECHNICAL DATA

300/500V & 450/750V, 70°C SINGLE CORE PVC FLEXIBLE WIRE HO5V-K & HO7V-K



APPLICATION

For indoor fixed installations in dry locations in electrical equipment, switchboards and distributors. Should be installed in surface mounted or embedded conduits, for protected fixed installations in or on lighting fittings. Suitable for installations in machines for nominal voltages up to 1.000 V alternating current or up to 750 V to earth direct current. Cannot be used for installations under the wall surface.

CONSTRUCTION

Fine copper strands acc. to BS 6360, IEC 60228, VDE 0295, class 5

PVC insulation

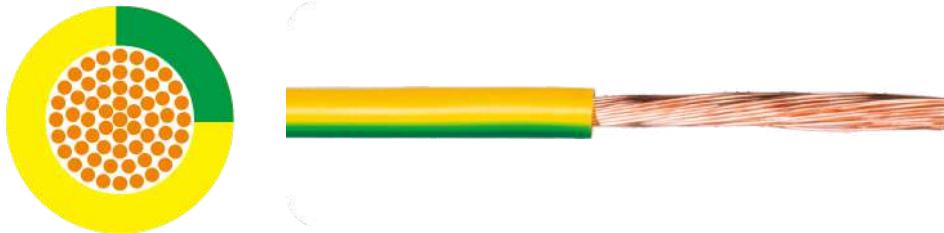
Insulation Colour: Brown, Blue, Green/Yellow, Grey, Black

TECHNICAL DATA

Rated voltage: H05V-K 300/500V & H07V-K 450/750	Temperature: 70°C	Reference standard:
Test voltage: H05V-K 2000V & H07V-K 2500V	Min. bending radius: 12.5 to 15 x Ø	DIN VDE 0281-3 HD 21.3 S3 and IEC 60227-3

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
HO5VK		
1x0.50	2.1-2.6	8
1x0.75	2.2-2.8	12
1x1.00	2.4-2.9	14
HO7VK		
1x1.5	2.8-3.5	20
1x2.5	3.4-4.2	32
1x4	3.9-4.9	46
1x6	4.4-5.4	65
1x10	5.7-6.9	113
1x16	6.7-8.2	170
1x25	8.4-10.3	260
1x35	9.7-11.8	360
1x50	11.5-13.9	515
1x70	13.2-16.1	710
1x95	15.1-18.3	940
1x120	16.7-20.3	1180
1x150	18.6-22.6	1481
1x185	25.0	2040
1x240	27.0	2620

600/1000V 105°C SINGLE CORE PVC FLEXIBLE WIRE



APPLICATION

This cable is suitable for the wiring of switch, control, metering, relay and instrument panels of power switchgear, and for such purposes as internal connections in rectifier equipment and in motor starters and controllers.

CONSTRUCTION

Fine copper strands (Tinned or Plain) acc. to BS 6360, IEC 60228, VDE 0295, class 5

PVC insulation

Insulation Colour: Brown, Blue, Green/Yellow, Grey, Black

TECHNICAL DATA

Rated voltage: 600/1000V

Test voltage: 3500V

Temperature: 105°C

Min. bending radius: 12.5 to 15 x Ø

Reference standard: BS 6231, AS/NZS5000.1

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x1.0	3.4	18
1x1.5	3.7	23
1x2.5	4.2	34
1x4	4.8	50
1x6	6.3	71
1x10	7.8	123
1x16	9	203
1x25	11.5	303

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x35	13	412
1x50	15	607
1x70	17.5	837
1x95	19.5	1080
1x120	21.5	1280
1x150	24	1630
1x185	26.5	1940
1x240	30	2550

600/1000V 105°C SINGLE CORE LSHF FLEXIBLE WIRE



APPLICATION

This cable is suitable for installation in switch cabinets, appliances and devices for communication technologies, household appliances and construction of generation, and transformers, machine construction, railway technologies and particularly suitable for internal wiring of rail vehicles.

CONSTRUCTION

Fine copper strands (tinned or plain) acc. to BS 6360, IEC 60228, VDE 0295, class 5

Low smoke halogen free compound (LSHF) insulation

Insulation Colour: Brown, Blue, Green / Yellow, Grey, Black

TECHNICAL DATA

Rated voltage: 450/750V for 0.5mm² – 1.0mm²

600/1000V for 1.5mm² and above

Test voltage: 2500V for 0.5mm² – 1.0mm²

3500V for 1.5mm² and above

Temperature: 105°C

Bending radius: 4 X Ø (for one single bend)

6 X Ø (min. bending radius)

Reference standard: IEC 60332-1 & BS 4066 Part 1 (Flame Retardant)

IEC 60332-3-24 & BS 4066 Part 3 (Fire Retardant on bunched Cables)

IEC 60754 & BS 6425 (Halogen Free properties)

IEC 61034 & BS 7622 (Low Smoke Emission)

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x0.5	2.6	11	1x25	9.7	305
1x0.75	2.8	14	1x35	11.1	404
1x1.0	2.9	16	1x50	13.6	576
1x1.5	3.2	23	1x70	15.4	765
1x2.5	3.6	35	1x95	17.6	1052
1x4	4.2	51	1x120	19.5	1261
1x6	4.8	71	1x150	21.9	1567
1x10	6.1	131	1x185	23.5	1892
1x16	7.2	199	1x240	27.2	2538

600/1000V 120°C SOLAR PV1-F HALOGEN FREE PV CABLES



APPLICATION

Cables are double insulated, electron-beam cross-linked cables for Photovoltaic power applications.

CONSTRUCTION

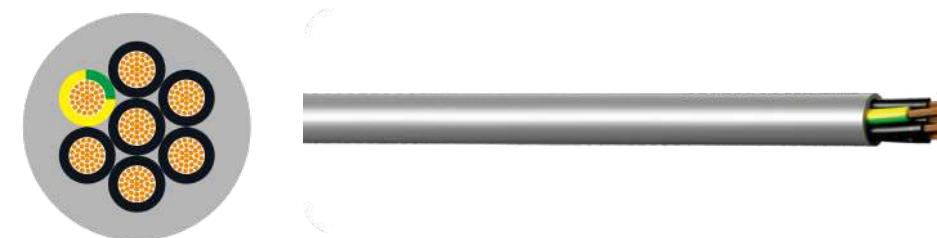
Tinned Fine copper strands, acc. to EN 60228, class 5
Electron-beam cross-linked polyolefin insulation, 120°C
Insulation colour: White
Electron-beam cross-linked polyolefin jacket
Jacket colour: Black, Red, Blue

TECHNICAL DATA

Rated voltage: 600/1000V (DC1800V)
Max. Conductor Temp: 120°C
Ambient Temp. > 25 years (TÜV): -40°C ~ 90°C
Max. short circuit temp. (5 sec.): 200°C
Bending radius: 5 X Ø (min. bending radius)
Approval standard: 2 PfG 1169/08.2007 (PV1-F)
Resistance of conductor: acc. to EN 50395
Voltage Test on completed cable: acc. to EN 50395 (AC 6500V)
Insulation Resistance: acc. to EN 50395
Pressure Test at high Temp.: acc. to EN 60811-3-1
Damp Heat Test: acc. to EN 60068-2-78
Acid & Alkaline Resistance: acc. to EN 60811-2-1
Ozone Resistance: acc. to EN 50396
Weathering/UV-Resistance: acc. to HD 605/A1
Flame Propagation Test: acc. to EN 60322-1-2
Halogen Test: acc. to 2 PfG 1169/08.2007 Annex B and Annex C
acc. to EN 50267-2-1/2

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x1.5	5.6	44.6
1x2.5	6.0	43.7
1x4.0	7.0	60.0
1x6.0	7.9	81.0

300/500V, LSHF – JZ/OZ CONTROL FLEXIBLE CABLES



APPLICATION

Applications include airports, hospitals, lift shafts, heating and ventilating controls, in fact anywhere that conventional PVC cables were previously used. In addition to its LSHF properties these cables also offer a high degree of flame retardance therefore reducing the risks of spreading fire.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5
LSHF (Low Smoke Halogen Free) insulation
Insulation Colour: Black with continuous White number
Earth conductor Green / Yellow
LSHF (Low Smoke Halogen Free) jacket
Jacket colour: Grey
(JZ with green/yellow, OZ without Green / Yellow)

TECHNICAL DATA

Rated voltage: 300/500V
Test voltage: 2000V
Temperature: 105°C
Min. bending radius: 4 x OD (fixed installation)
15 x OD (flexible installation)
Reference standard: IEC 60332-1 & BS 4066 Part 1 (Flame Retardant)
IEC 60332-3-24 & BS 4066 Part 3 (Fire Retardant on bunched Cables)
IEC 60754 & BS 6425 (Halogen Free properties)
IEC 61034 & BS 7622 (Low Smoke Emission)

300/500V, LSHF – JZ/OZ CONTROL FLEXIBLE CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	5.1	35
3G0.5	5.4	42
4G0.5	5.8	50
5G0.5	6.6	64.3
7G0.5	7.1	82.1
8G0.5	8.2	102
10G0.5	9.3	126
12G0.5	9.5	136
14G0.5	9.8	164
16G0.5	10.5	185
18G0.5	11.6	202
21G0.5	12.5	246
25G0.5	13.3	264
30G0.5	14.2	334
34G0.5	15.0	367
35G0.5	15.6	381
2x0.75	5.7	46
3G0.75	5.9	54
4G0.75	6.5	66
5G0.75	7.0	79
7G0.75	7.6	106
8G0.75	9.1	131
10G0.75	10.1	155
12G0.75	10.4	172
15G0.75	11.3	207
18G0.75	12.2	247
21G0.75	13.5	292
25G0.75	14.2	333
34G0.75	16.3	449
2x1.0	6.0	53
3G1.0	6.3	63
4G1.0	6.8	76

300/500V, LSHF – JZ/OZ CONTROL FLEXIBLE CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
5G1.0	7.4	94	14G2.5	16.2	492
7G1.0	8.3	133	18G2.5	18.2	623
8G1.0	9.8	159	25G2.5	21.3	830
10G1.0	10.7	187	34G2.5	20.3	801
12G1.0	10.6	203	2x4	9.0	187
14G1.0	11.6	203	3G4	10.2	197
18G1.0	13.1	303	4G4	11.1	242
21G1.0	14.5	362	5G4	12.4	302
25G1.0	15.0	362	7G4	13.7	390
34G1.0	17.6	549	11G4	17.7	634
2x1.5	6.5	67	12G4	20.3	801
3G1.5	6.9	82	3G6	12.0	282
4G1.5	7.4	101	4G6	13.2	355
5G1.5	8.4	67	5G6	14.7	441
7G1.5	9.0	160	7G6	16.3	572
8G1.5	10.8	207	3G10	14.9	452
10G1.5	11.7	248	4G10	16.5	575
12G1.5	12.0	277	5G10	25.8	1318
14G1.5	12.9	313			
16G1.5	13.8	362			
18G1.5	14.8	402			
21G1.5	16.5	488			
25G1.5	17.3	490			
32G1.5	17.6	705			
34G1.5	19.7	728			
2x2.5	7.8	98			
3G2.5	8.4	124			
4G2.5	9.2	155			
5G2.5	10.4	196			
7G2.5	12.7	248			
9G2.5	13.8	402			
12G2.5	15.1	423			

SINGLE CORE PVC FLEXIBLE CABLES BS 2004, 250/440V



APPLICATION

For mobile-equipment used in mines, factories, farms or household appliances in dry and damp areas.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulated
Insulation colour: Red, Blue, Yellow, Light-Grey, Black, White, etc.

TECHNICAL DATA

Rated voltage: 250/440V
Test voltage: 2000V
Temperature: 70°C
Min. bending radius: 7.5 x OD (fixed installation)
15 x OD (flexible installation)
Reference standard: BS 2004

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x23/0.0076"	2.40	12.4
1x40/0.0076"	2.7	17.9
1x70/0.0076"	3.2	28.1
1x110/0.0076"	3.7	41.0
1x162/0.0076"	4.7	61.3

CIRCULAR SHEATHED FLEXIBLE CABLES BS 2004, 250/440V



APPLICATION

For mobile-equipment used in mines, factories, farms or household appliances in dry and damp areas.

CONSTRUCTION

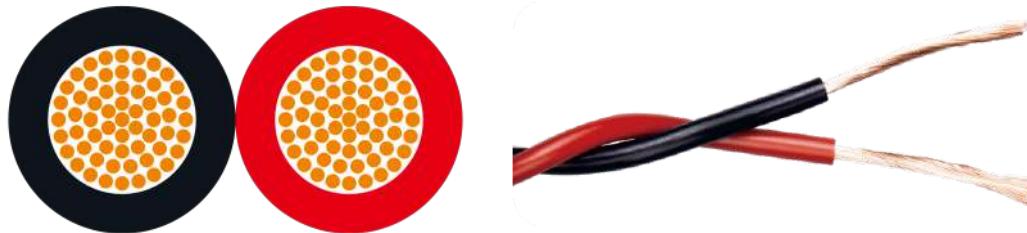
Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulated
Insulation colour: 2 Cores –Brown, Blue
3 Cores – Brown, Blue and Green / Yellow
4 Cores – Brown, Blue, Grey and Black
PVC Jacketed
Jacket colour: Grey or Black

TECHNICAL DATA

Rated voltage: 250/440V
Test voltage: 2000V
Temperature: 70°C
Min. bending radius: 7.5 x OD (fixed installation)
15 x OD (flexible installation)
Reference standard: BS 2004

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x23/0.0076"	7.2	71	4x70/0.0076"	10.4	190
3x23/0.0076"	7.6	88	2x110/0.076"	10.1	169
4x23/0.0076"	8.2	101	3x110/0.0076"	10.7	210
2x40/0.0076"	7.7	89	4x110/0.0076"	11.6	260
3x40/0.0076"	8.3	105	2x162/0.076"	12.3	230
4x40/0.0076"	9.5	140	3x162/0.0076"	12.9	285
2x70/0.0076"	9.2	128	4x162/0.0076"	14.1	350
3x70/0.0076"	9.7	160			

300/300V 70°C, PVC INSULATED TWISTED PAIR FLEXIBLE CABLES



APPLICATION

For general electronics, electrical equipment and automation equipment installation lines, internal wiring.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulated
Insulation colour: 2 Cores – Black, Red, other colours available

TECHNICAL DATA

Rated voltage: 300/300V
Test voltage: 2000V
Temperature: 70°C
Reference standard: 227 IEC 42, CCC(RVS)

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x1.5	3.5	49
2x2.5	3.8	71
2x4.0	4.2	111
2x6.0	4.8	161
2x10	6.3	259
2x16	7.6	399

300/300V, 70°C, LIGHT DUTY PVC INSULATED & SHEATHED FLEXIBLE CABLES H03VV-F (CIRCULAR) & H03VVH2-F (PARALLEL)



APPLICATION

These cable types are especially suited for use on small appliances with low mechanical stress and for connection for light household appliances, e.g. kitchen utensils, desk lamps, floor lamps, vacuum cleaners, office machines, radios, etc.

CONSTRUCTION

Fine copper strands acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulation
Insulation colour: 2 Cores – Blue, Brown
3 Cores – Green / Yellow, Blue and Brown
4 Cores – Green / Yellow, Black, Blue and Brown
PVC Jacketed
Jacket colour: Grey, Black or White

TECHNICAL DATA

Rated voltage: 300/300V
Test voltage: 2000V
Temperature: 70°C
Min. bending radius: 6 x Ø
Reference standard: BS 6500, HD21.5, VDE 0281

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
HO3VV-F (Circular)					
2x0.5	5.0	9.6	2x0.5	3.2x5.2	9.7
3x0.5	5.4	14.4	2x0.75	3.4x5.6	14.4
4x0.5	5.8	19.2			
2x0.75	5.5	14.4			
3x0.75	6.0	21.6			
4x0.75	6.5	28.8			
5x0.75	7.2	36.0			

300/500V, 70°C, ORDINARY DUTY PVC INSULATED & SHEATHED FLEXIBLE CABLES H05VV-F (CIRCULAR) & H05VVH2-F (PARALLEL)



APPLICATION

These cable types are especially suited for use on small appliances with low mechanical stress and for connection for light household appliances, e.g. kitchen utensils, desk lamps, floor lamps, vacuum cleaners, office machines, radios, etc.

CONSTRUCTION

Fine copper strands acc. to BS 6360, IEC 60228, VDE 0295, class 5

PVC insulation

Insulation colour: 2 Cores – Blue, Brown

3 Cores – Green / Yellow, Blue and Brown

4 Cores – Green / Yellow, Black, Blue and Brown

5 Cores – Green / Yellow, Black, Blue, Brown and Black

PVC Jacketed

Jacket colour: Grey, Black or White

TECHNICAL DATA

Rated voltage: 300/500V

Test voltage: 2000V

Temperature: 70°C

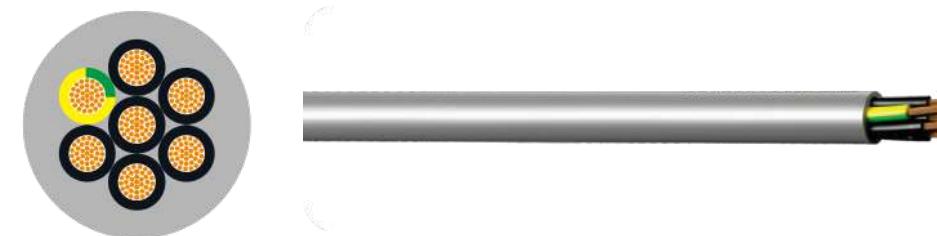
Min. bending radius: 4 x Ø

Reference standard: BS 6500, HD21.5, VDE 0281

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
H05VV-F (Circular)		
2x0.75	6.4	14.4
3x0.75	6.8	21.6
4x0.75	7.4	29
5x0.75	8.5	36
2x1.0	6.8	19
3x1.0	7.2	29
4x1.0	8.0	38
5x1.0	8.8	48
2x1.5	7.6	29
3x1.5	8.2	43
4x1.5	9.2	58
5x1.5	10.5	72

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
H05VV-F (Circular)		
2x2.5	9.2	58
3x2.5	10.1	72
4x2.5	11.2	48
5x2.5	12.4	72
2x4.0	10.2	96
3x4.0	11.3	120
4x4.0	12.5	115
5x4.0	13.7	192
3x6.0	13.1	181
H05VVH2-F (Parallel)		
2x0.75	4.2 x 6.8	14.4
2x1.00	4.4 x 7.2	19.2

300/500V, YSLY – JZ/OZ PVC CONTROL FLEXIBLE CABLES



APPLICATION

The cable can be used in the construction of machine tools, plants, appliances, air conditioning, installations and power station installation in dry and damp rooms with medium mechanical force.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5

PVC insulation

Insulation colour: Black with continuous White number

Earth conductor Green / Yellow

PVC outer jacket

Jacket colour: Grey

(JZ with Green / Yellow, OZ without Green / Yellow)

TECHNICAL DATA

Rated voltage: 300/500V

Test voltage: 2000V

Temperature: 70°C

Min. bending radius: 4 x OD (fixed installation)

15 x OD (flexible installation)

Reference standard: DIN VDE 0281-13

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	5.1	35	18G0.5	11.6	202
3G0.5	5.4	42	21G0.5	12.5	246
4G0.5	5.8	50	25G0.5	13.3	264
5G0.5	6.6	64.3	30G0.5	14.2	334
7G0.5	7.1	82.1	34G0.5	15.0	367
8G0.5	8.2	102	35G0.5	15.6	381
10G0.5	9.3	126	2x0.75	5.7	46
12G0.5	9.5	136	3G0.75	5.9	54
14G0.5	9.8	164	4G0.75	6.5	66
16G0.5	10.5	185	5G0.75	7.0	79

300/500V, YSLY – JZ/OZ PVC CONTROL FLEXIBLE CABLES

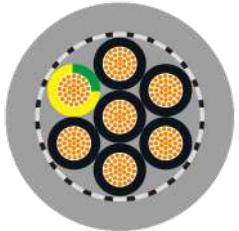
No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
7G0.75	7.6	106
8G0.75	9.1	131
10G0.75	10.1	155
12G0.75	10.4	172
15G0.75	11.3	207
18G0.75	12.2	247
21G0.75	13.5	292
25G0.75	14.2	333
34G0.75	16.3	449
2x1.0	6.0	53
3G1.0	6.3	63
4G1.0	6.8	76
5G1.0	7.4	94
7G1.0	8.3	133
8G1.0	9.8	159
10G1.0	10.7	187
12G1.0	10.6	203
14G1.0	11.6	203
18G1.0	13.1	303
21G1.0	14.5	362
25G1.0	15.0	362
34G1.0	17.6	549
2x1.5	6.5	67
3G1.5	6.9	82
4G1.5	7.4	101
5G1.5	8.4	67
7G1.5	9.0	160
8G1.5	10.8	207
10G1.5	11.7	248
12G1.5	12.0	277
14G1.5	12.9	313
16G1.5	13.8	362

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
18G1.5	14.8	402
21G1.5	16.5	488
25G1.5	17.3	490
32G1.5	17.6	705
34G1.5	19.7	728
2x2.5	7.8	98
3G2.5	8.4	124
4G2.5	9.2	155
5G2.5	10.4	196
7G2.5	12.7	248
9G2.5	13.8	402
12G2.5	15.1	423
14G2.5	16.2	492
18G2.5	18.2	623
25G2.5	21.3	830
34G2.5	20.3	801
2x4	9.0	187
3G4	10.2	197
4G4	11.1	242
5G4	12.4	302
7G4	13.7	390
11G4	17.7	634
12G4	20.3	801
3G6	12.0	282
4G6	13.2	355
5G6	14.7	441
7G6	16.3	572
3G10	14.9	452
4G10	16.5	575
5G10	25.8	1318
3G25	23.2	1282
4G25	27.5	1540

300/500V, YSLY – JZ/OZ PVC CONTROL FLEXIBLE CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
5G25	30.7	1914	3G70	39.6	13183
7G25	34.3	2479	4G70	44.3	4206
3G35	27.2	1688	3G95	44.0	4681
4G35	31.5	2089	4G95	51.8	5621
5G35	34.7	2545	3G120	47.8	5623
3G50	31.5	2553	4G120	55.7	6828
4G50	36.9	2962			

300/500V LIYCY DATA CABLES



APPLICATION

The data cable-LiYCY is suitable as a signal and control cable in electronics of computer systems, electronic control equipment, office machines, tool and machine construction.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5

PVC insulation

Insulation colour: Black with continuous White number

Earth conductor Green / Yellow

Tinned copper shielded

PVC jacket

Jacket colour: Grey

TECHNICAL DATA

Rated voltage: up to 0.34mm²: 300V from 0.5mm²: 300/500V

Test voltage: up to 0.34mm²: 1000V from 0.5mm²: 2000V

Temperature: 70°C

Min. bending radius: 5 x OD (fixed installation)

15 x OD (flexible installation)

Reference standard: DIN VDE 0812

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.14	3.9	21
3x0.14	4.1	25
4x0.14	4.3	29
5x0.14	4.6	35
6x0.14	5.0	37
7x0.14	5.0	40
8x0.14	5.4	44
9x0.14	5.7	50
10x0.14	6.0	55
12x0.14	6.2	60

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
14x0.14	6.7	66
16x0.14	7.1	74
18x0.14	7.4	93
20x0.14	7.7	95
21x0.14	7.7	105
24x0.14	8.3	106
25x0.14	8.8	111
27x0.14	8.8	122
30x0.14	9.0	129
32x0.14	9.3	136

300/500V LIYCY DATA CABLES

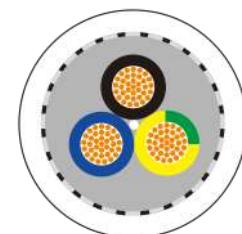
No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
36x0.14	9.6	148	21x0.34	10.6	202
2x0.25	4.5	29	24x0.34	11.7	252
3x0.25	4.7	35	25x0.34	12.6	254
4x0.25	5.1	44	27x0.35	12.4	258
5x0.25	5.5	50	32x0.34	13.0	296
6x0.25	5.9	58	36x0.34	13.5	322
7x0.25	5.9	60	2x0.5	5.7	42
8x0.25	6.3	67	3x0.5	5.9	51
10x0.25	7.4	81	4x0.5	6.4	61
12x0.25	7.6	91	5x0.5	7.0	76
14x0.25	8.1	116	6x0.5	7.7	94
16x0.25	8.3	133	7x0.5	7.7	96
18x0.25	8.7	137	8x0.5	8.3	115
21x0.25	9.1	171	10x0.5	9.6	141
24x0.25	10.1	185	12x0.5	9.9	156
25x0.25	10.3	190	16x0.5	11.5	196
27x0.25	10.3	200	18x0.5	12.0	215
30x0.25	10.8	214	20x0.5	12.4	247
32x0.25	11.2	227	24x0.5	13.7	298
36x0.25	11.6	250	25x0.5	13.9	314
2x0.34	5.0	33	27x0.5	13.9	331
3x0.34	5.2	41	2x0.75	6.1	56
4x0.34	5.6	48	3x0.75	6.4	75
5x0.34	6.2	58	4x0.75	7.0	95
6x0.34	6.9	64	5x0.75	7.7	130
7x0.34	6.9	70	7x0.75	8.3	168
8x0.34	7.4	93	8x0.75	9.1	173
10x0.34	8.4	110	10x0.75	10.5	195
12x0.34	8.7	120	12x0.75	10.9	232
14x0.34	9.2	137	14x0.75	11.8	260
16x0.34	9.6	152	16x0.75	12.4	260
18x0.34	10.0	166	18x0.75	12.7	296

300/500V LIYCY DATA CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
20x0.75	13.6	315
25x0.75	15.7	418
30x0.75	16.2	500
2x1.0	6.6	48
3x1.0	6.9	110
4x1.0	7.7	135
5x1.0	8.3	156
6x1.0	9.2	178
7x1.0	9.2	192
8x1.0	10.1	223
10x1.0	11.7	251
12x1.0	12.0	265
14x1.0	12.7	272
16x1.0	13.2	361
18x1.0	14.0	380
20x1.0	14.8	388

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
25x1.0	17.1	475
30x1.0	17.8	554
2x1.5	7.8	97
3x1.5	8.1	125
4x1.5	8.9	165
5x1.5	9.7	192
6x1.5	10.7	219
7x1.5	10.7	245
8x1.5	11.8	270
10x1.5	13.7	338
12x1.5	14.3	365
14x1.5	15.4	410
18x1.5	16.9	553
20x1.5	17.9	635
25x1.5	20.2	720
30x1.5	20.7	776

300/500V CY-JZ/OZ NUMBER CODED TRANSPARENT SHEATH



APPLICATION

The cable can be used in the construction of machine tools, plants, appliances, air conditioning, installations and power station installation in dry and damp rooms with medium mechanical force. These cables are ideally products in EMI critical environment.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulation
Insulation colour: Black with continuous White number
Earth conductor Green / Yellow
PVC inner jacket Grey
Overall tinned copper shield
PVC outer jacket
Outer jacket colour: Transparent
(JZ with Green / Yellow, OZ without Green / Yellow)

TECHNICAL DATA

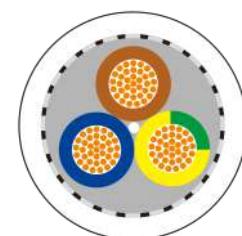
Rated voltage: 300/500V
Test voltage: 4000V
Temperature: 70°C
Min. bending radius: 6 X OD (fixed installation)
20 X OD (flexible installation)
Reference standard: DIN VDE 0245, 0281 part 13

300/500V CY-JZ/OZ NUMBER CODED TRANSPARENT SHEATH

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	6.9	92
3G0.5	7.4	103
4G0.5	7.9	114
5G0.5	8.6	128
7G0.5	9.2	158
12G0.5	11.6	216
14G0.5	12.1	224
18G0.5	13.4	336
21G0.5	14.3	341
25G0.5	15.5	404
30G0.5	16.2	469
40G0.5	18.5	573
2x0.75	7.5	101
3G0.75	7.9	116
4G0.75	8.5	132
5G0.75	9.1	156
7G0.75	9.9	182
12G0.75	13.4	347
18G0.75	15.6	478
25G0.75	16.9	541
34G0.75	19.2	699
40G0.75	21.1	771
3G1.5	9.1	164
4G1.5	10.1	188
5G1.5	10.6	221

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
7G1.5	11.5	266
12G1.5	15.1	438
18G1.5	389	625
25G1.5	530	889
34G1.5	23.1	1114
3G2.5	10.4	213
4G2.5	11.3	256
5G2.5	12.8	305
7G2.5	13.9	421
12G2.5	17.9	662
18G2.5	21.6	945
4G4	13.5	410
5G4	14.8	480
4G6	16.0	532
5G6	17.4	656
7G6	18.4	798
4G10	19.1	930
5G10	22.6	1080
4G16	22.3	1190
5G16	25.0	1385
4G25	32.5	1910
4G35	35.5	2510
4G50	38.6	3370
4G70	43.8	3815
4G95	499	5856

300/500V CY-JB/OB COLOUR CODED TRANSPARENT SHEATH



APPLICATION

The cable can be used in the construction of machine tools, plants, appliances, air conditioning, installations and power station. Installation in dry and damp rooms with medium mechanical force. These cables are ideally products in EMI critical environment.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5.
PVC insulation-coloured cores
Earth conductor Green / Yellow in the outer layer
PVC inner jacket Grey
Overall tinned copper shield
PVC outer jacket
Outer jacket colour: Transparent
(JB with Green / Yellow, OB without Green / Yellow)

TECHNICAL DATA

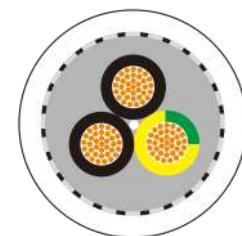
Rated voltage: 300/500V
Test voltage: 4000V
Temperature: 70°C
Min. bending radius: 6 X OD (fixed installation)
20 X OD (flexible installation)
Reference standard: DIN VDE 0245, 0281 part 13

300/500V CY-JB/OB COLOUR CODED TRANSPARENT SHEATH

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	6.9	92
3G0.5	7.4	103
4G0.5	7.9	114
5G0.5	8.6	128
7G0.5	9.2	158
12G0.5	11.6	216
14G0.5	12.1	224
18G0.5	13.4	336
21G0.5	14.3	341
25G0.5	15.5	404
30G0.5	16.2	469
2x0.75	7.5	101
3G0.75	7.9	116
4G0.75	8.5	132
5G0.75	9.1	156
7G0.75	9.9	182
12G0.75	13.4	347
18G0.75	15.6	478
25G0.75	16.9	541
3G1.0	8.3	135
4G1.0	8.8	155
5G1.0	9.7	181
7G1.0	10.5	203
12G1.0	13.4	347
18G1.0	15.6	478
25G1.0	18.0	645

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
3G1.5	9.1	164
4G1.5	10.1	188
5G1.5	10.6	221
7G1.5	11.5	266
12G1.5	15.1	438
18G1.5	389	625
25G1.5	530	889
34G1.5	23.1	1114
3G2.5	10.4	213
4G2.5	11.3	256
5G2.5	12.8	305
7G2.5	13.9	421
12G2.5	17.9	662
18G2.5	21.6	945
4G4	13.5	410
5G4	14.8	480
4G6	16.0	532
5G6	17.4	656
7G6	18.4	798
4G10	19.1	930
5G10	22.6	1080
4G16	22.3	1190
5G16	25.0	1385
4G25	32.5	1910
4G35	35.5	2510

300/500V CY-JZ NUMBER CODED GREY SHEATH



APPLICATION

The cable can be used in the construction of machine tools, plants, appliances, air conditioning installations and power station installation in dry and damp rooms with medium mechanical force. These cables are ideally products in EMI critical environment.

CONSTRUCTION

Fine copper strands, acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulation
Insulation colour: Black with continuous white number
Earth conductor Green / Yellow
PVC inner jacket Grey
Overall tinned copper shield
PVC outer jacket
Outer colour: Grey

TECHNICAL DATA

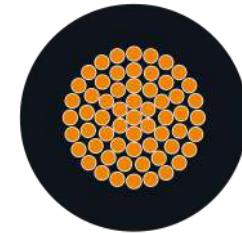
Rated voltage: 300/500V
Test voltage: 4000V
Temperature: 70°C
Min. bending radius: 6 X OD (fixed installation)
20 X OD (flexible installation)
Reference standard: DIN VDE 0245, 0281 part 13

300/500V CY-JZ NUMBER CODED GREY SHEATH

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	6.9	92
3G0.5	7.4	103
4G0.5	7.9	114
5G0.5	8.6	128
7G0.5	9.2	158
12G0.5	11.6	216
14G0.5	12.1	224
18G0.5	13.4	336
21G0.5	14.3	341
25G0.5	15.5	404
30G0.5	16.2	469
2x0.75	7.5	101
3G0.75	7.9	116
4G0.75	8.5	132
5G0.75	9.1	156
7G0.75	9.9	182
12G0.75	13.4	347
18G0.75	15.6	478
25G0.75	16.9	541
34G0.75	19.2	699
3G1.0	8.3	135
4G1.0	8.8	155
5G1.0	9.7	181
7G1.0	10.5	203
12G1.0	13.4	347
18G1.0	15.6	478

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
25G1.0	18.0	645
34G1.0	20.7	865
3G1.5	9.1	164
4G1.5	10.1	188
5G1.5	10.6	221
7G1.5	11.5	266
12G1.5	15.1	438
18G1.5	389	625
25G1.5	530	889
3G2.5	10.4	213
4G2.5	11.3	256
5G2.5	12.8	305
7G2.5	13.9	421
12G2.5	17.9	662
18G2.5	21.6	945
4G4	13.5	410
5G4	14.8	480
4G6	16.0	532
5G6	17.4	656
7G6	18.4	798
4G10	19.1	930
5G10	22.6	1080
4G16	22.3	1190
5G16	25.0	1385
4G25	32.5	1910
4G35	35.5	2510

500V, 180°C SINGLE CORE SIF-SILICONE RUBBER FLEXIBLE CABLES



APPLICATION

Designed for use in environments where prolonged heat resistance is required. Silicone cables are employed where insulations are subjected to extreme changes in temperature. They are heat resistant up to 180 Deg C, intermittently 220 Deg C.

CONSTRUCTION

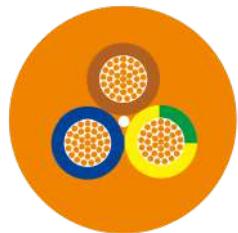
Tinned Fine copper strands acc. to BS 6360, IEC 60228, VDE 0295, class 5
Silicone Rubber insulated
Insulation colour: Black, Red, Blue, Brown, Green / Yellow

TECHNICAL DATA

Rated voltage: 500V
Test voltage: 1500V
Temperature: -60°C to +180°C
Min. bending radius: 15 x Ø
Reference standard: BS EN 50525-2-21, BS EN 50525-1, VDE 0282

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x0.25	1.9	3.9	1x10	7.0	120
1x0.50	2.1	8	1x16	8.4	180
1x0.75	2.4	11	1x25	10.3	290
1x1.0	2.5	14	1x35	11.6	400
1x1.5	2.8	19	1x50	13.9	550
1x2.5	3.4	30	1x70	16.0	750
1x4.0	4.2	48	1x95	18.4	1000
1x6.0	5.2	71	1x120	20.0	1260

500V, 180°C
SIHF-SILICONE RUBBER INSULATED &
SHEATHED FLEXIBLE CABLES



APPLICATION

Designed for use in environments where prolonged heat resistance is required. Silicone cables are employed where insulations are subjected to extreme changes in temperature. They are heat resistant up to 180 Deg C, intermittently 220 Deg C.

CONSTRUCTION

Tinned Fine copper strands acc. to BS 6360, IEC 60228, VDE 0295, class 5

Silicone Rubber insulated

Insulation colour: 2 Cores: Blue, Black

3 Cores: Blue, Black, Green / Yellow

4 Cores: Blue, Black, Brown, Green / Yellow

5 Cores: Blue, Black, Brown, Black, Green / Yellow

6 Cores+: Black cores with White numbers + integral Green / Yellow

Silicone Rubber jacketed

Jacket colour: White, Natural, Red, Black

TECHNICAL DATA

Rated voltage: 500V

Test voltage: 1500V

Temperature: -60°C to +180°C

Min. bending radius: 15 x Ø

Reference standard: BS EN 50525-2-21, BS EN 50525-1, VDE 0282

500V, 180°C
SIHF-SILICONE RUBBER INSULATED &
SHEATHED FLEXIBLE CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.75	6.4	53	4x4.0	13.1	295
2x1.0	6.6	60	4x6.0	16.3	442
2x1.5	7.6	82	5x0.75	8.5	101
2x2.5	9.2	135	5x1.0	8.8	116
2x4.0	10.8	191	5x1.5	9.6	148
2x6.0	13.4	274	5x2.5	11.6	229
3x0.75	6.8	64	5x4.0	14.4	359
3x1.0	7.4	78	5x6.0	17.7	535
3x1.5	8.0	98	6x0.75	9.2	117
3x2.5	9.7	152	6x1.0	9.5	135
3x4.0	11.4	224	6x1.5	10.4	173
3x6.0	14.2	338	6x2.5	12.5	268
4x0.75	7.8	84	6x4.0	16.2	441
4x1.0	8.0	95	6x6.0	19.2	630
4x1.5	8.8	122	7x1.5	10.4	187
4x2.5	10.6	189	7x2.5	12.6	293

HO5RN-F ORDINARY DUTY RUBBER CABLES



APPLICATION

Ordinary duty rubber cable designed for use on power tools and light machinery. Suitable for indoor and outdoor use including wet conditions.

CONSTRUCTION

Fine copper strands, acc.to. VDE 0295, IEC 60228, BS 6360, class 5

Ethylene-propylene rubber (EPR) insulation EI4 to VDE-0282 Part-1

Insulation colour: 2 core – Blue, Brown

3 core – Green / Yellow, Brown, Blue

Polychloroprene rubber (Neoprene) jacket EM2

Jacket colour: Black

TECHNICAL DATA

Rated voltage: 300/500V

Test voltage: 2000V AC

Temperature: -35°C to +60°C (70°C max)

Flexing bending radius: 6 x Ø

Fixed bending radius: 4 x Ø

Reference standard: HD22.4 S3, VDE-0282 Part-4, IEC 60245-4, CCC

Good mechanical strength

High ozone and weather resistance

Good aging resistance

Low flammability

Good resistance toward chemicals Moderate oil

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	5.8	53
2x0.75	6.3	63
2x1.0	6.8	77

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
3x0.5	6.6	62
3x0.75	7.0	78
3x1.0	7.5	90

HO7RN-F HEAVY DUTY RUBBER CABLES



APPLICATION

For general use in dry, humid and wet locations, for outdoor use, for agricultural applications or in locations subject to fire and explosion hazards. Also suitable for connections of industrial and workshop electrical equipment submitted to medium level mechanical stress. Can be used for fixed installations in temporary buildings as well as for connections of mobile machines and hoists. Allowed up to 1000V(600/1000V) alternating voltage within fixed installation in tubes or devices as well as connection cable for motors and similar.

CONSTRUCTION

Fine copper strands, acc.to. VDE 0295, IEC 60228, BS 6360, class 5

Ethylene-propylene rubber (EPR) insulated EI4 to VDE-0282 Part-1

Insulation colour: 1 core – Black

2 core – Blue, Brown

3 core – Green / Yellow, Brown, Blue

4 core – Green / Yellow, Brown, Black, Grey

5 core – Green / Yellow, Blue, Brown, Black, Grey

6 core & above – Green / Yellow & Black with printed number

Polychloroprene rubber (Neoprene) jacketed EM2

Jacket colour: Black

TECHNICAL DATA

Rated voltage: 450/750V

Test voltage: 2500V AC

Temperature: -35°C to +60°C (70°C max)

Flexing bending radius: 6 x Ø

Fixed bending radius: 4 x Ø

Reference standard: HD22.4 S3, VDE-0282 Part-4, BS 7919, CCC

Good mechanical strength

High ozone and weather resistance

Good aging resistance

Low flammability

Good resistance toward chemicals Moderate oil

HO7RN-F HEAVY DUTY RUBBER CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x1.5	6.0	55
1x2.5	6.7	73.0
1x4	7.6	99
1x6	8.4	130
1x10	10.5	201
1x16	12.0	280
1x25	14.0	400
1x35	15.5	540
1x50	18.5	750
1x70	21.0	1000
1x95	24.0	1310
1x120	27.0	1630
1x150	30.0	2000
1x185	33.0	2420
1x240	35.0	2980
1x300	40.0	3750
1x400	43.0	4790
1x500	48.0	5930
2x1.0	8.4	100
2x1.5	9.4	130
2x2.5	11.5	190
2x4	13.0	260
2x6	14.5	350
2x10	19.5	620
2x16	22.0	850
2x25	27.0	1250
2x35	30.0	1625
2x50	35.0	2229
5x1.0	11.5	190
5x1.5	12.5	240
5x2.5	15.0	350
5x4	17.0	500

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
5x6	19.0	670
5x10	25.0	1140
5x16	29.0	1610
5x25	35.0	2440
3G1.0	9.1	125
3G1.5	10.1	160
3G2.5	12.0	230
3G4	14.0	320
3G6	15.5	425
3G10	21.0	765
3G16	24.0	1060
3G25	29.0	1560
3G35	33.0	2050
3G50	39.0	2870
3G70	44.0	3780
3G95	51.0	5060
3G120	56.0	6200
3G150	63.0	7680
3G185	69.0	9290
4G1.0	10.0	155
4G1.5	11.5	200
4G2.5	13.5	290
4G4	15.5	400
4G6	17.5	540
4G10	23.0	930
4G16	26.0	1300
4G25	32.0	1950
4G35	36.0	2580
4G50	43.0	3600
4G70	49.0	4800
4G95	57.0	6450
4G120	62.0	7850

HO7RN-F HEAVY DUTY RUBBER CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
4G150	70.0	9750	27G1.5	28.5	1077
7G1.5	17.0	342	7G2.5	18.5	485
9G1.5	18.5	428	12G2.5	23.5	799
12G1.5	20.0	505	19G2.5	29.0	1100
19G1.5	24.0	620	7G4.0	21.5	703
24G1.5	27.0	750	12G4.0	28.0	1020

HO7RN8-F HEAVY DUTY WATER RESISTANT RUBBER CABLES



APPLICATION

For general use in dry, humid and wet locations, for outdoor use, for agricultural applications or in locations subject to fire and explosion hazards. Also suitable for connections of industrial and workshop electrical equipment submitted to medium level mechanical stress. Can be used for fixed installations in temporary buildings as well as for connections of mobile machines and hoists. Allowed up to 1000V(600/1000V) alternating voltage within fixed installation in tubes or devices as well as connection cable for motors and similar.

CONSTRUCTION

Fine copper strands, acc.to VDE 0295, IEC 60228, BS 6360, class 5.

Ethylene-propylene rubber (EPR) insulated EI4 to VDE-0282 Part-1

Insulation colour: 1 core - Black

2 core - Blue, Brown

3 core - Green / Yellow, Brown, Blue

4 core - Green / Yellow, Brown, Black, Grey

5 core - Green / Yellow, Blue, Brown, Black, Grey

6 core & above - Green / Yellow & Black with printed number

Polychloroprene rubber (Neoprene) jacketed EM2

Jacket colour: Black

TECHNICAL DATA

Rated voltage: 450/750V

Test voltage: 2500V AC

Temperature: -35°C to +60°C (70°C max)

Flexing bending radius: 6 x Ø

Fixed bending radius: 4 x Ø

Reference standard: HD22.4 S3, VDE-0282 Part-4, BS 7919, CCC, BS EN 50525-2-21

Good mechanical strength

High ozone and weather resistance

Good aging resistance

Low flammability

Good resistance toward chemicals Moderate oil

HO7RN8-F HEAVY DUTY WATER RESISTANT RUBBER CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x1.5	6.0	55	3G16	24.0	1060
1x2.5	6.7	73	3G25	29.0	1560
1x4.0	7.6	99	3G35	33.0	2050
1x6.0	8.4	130	3G50	39.0	2870
1x10	10.5	201	3G70	44.0	3780
1x16	12.0	280	3G95	51.0	5060
1x25	14.0	400	3G120	56.0	6200
1x35	15.5	540	3G150	63.0	7680
1x50	18.5	750	3G185	69.0	9290
1x70	21.0	1000	4G1.0	10.0	155
1x95	24.0	1310	4G1.5	11.5	200
1x120	27.0	1630	4G2.0	13.5	290
1x150	30.0	2000	4G4.0	15.5	400
1x185	33.0	2420	4G6.0	17.5	540
1x240	35.0	2980	4G10	23.0	930
1x300	40.0	3750	4G16	26.0	1300
1x400	43.0	4790	4G25	32.0	1950
1x500	48.0	5930	4G35	36.0	2580
2x1.0	8.4	100	4G50	43.0	3600
2x1.5	9.4	130	4G70	49.0	4800
2x2.0	11.5	190	4G95	57.0	6450
2x4.0	13.0	260	4G120	62.0	7850
2x6.0	14.5	350	4G150	70.0	9750
2x10	19.5	620	5G1.0	11.5	190
2x16	22.0	850	5G1.5	12.5	240
2x25	27.0	1250	5G2.0	15.0	350
3G1.0	9.1	125	5G4.0	17.0	500
3G1.5	10.1	160	5G6.0	19.0	670
3G2.0	12.0	230	5G10	25.0	1140
3G4.0	14.0	320	5G16	29.0	1610
3G6.0	15.5	425	5G25	35.0	2440
3G10	21.0	765			

ARC WELDING ELECTRODE RUBBER CABLES



APPLICATION

This cable is designed for the transmission of high currents from the electric welding machine to the welding tool. Suitable for flexible use in switchgear, machine tool, construction and engineering equipment. It is suitable for many other Industrial applications, such as the petrochemical industry or in power distribution cabinets, where flexibility, chemical, oil and abrasion resistance are required. May also be used for non-welding applications such as earthing return leads, flexible tails on power supply. Bus bar connections.

CONSTRUCTION

Fine plain copper acc.to VDE 0295, IEC 60228, BS 6360
Separator: Crepe paper/PETP Tape over conductor
Polychloroprene Compound Jacket
Jacket colour: Black

TECHNICAL DATA

Test voltage: 2500V AC
Temperature: +65°C
Min. bending radius: 6 x Ø
Reference standard: IEC 60245-6

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x16	10.9	212
1x25	12.5	300
1x35	14	403
1x50	16	560
1x70	18.6	776
1x95	20.7	1035

600/1000V, 105°C CVV CONTROL FLEXIBLE CABLES



APPLICATION

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches. Use for free and not continuous movement application.

CONSTRUCTION

Fine copper strands, acc.to VDE 0295, IEC 60228, BS 6360, class 5
PVC insulated
Insulation colour: Black core with continuous white number or
Colour coded cores for 2 to 4 cores
Non-hygroscopic material binding tape
PVC jacketed
Jacket colour: Black

TECHNICAL DATA

Rated voltage: 600/1000V
Test voltage: 3500V
Temperature: 105°C
Min. bending radius: 4 x OD (fixed installation)
15 x OD (flexible installation)
Reference standard: IEC 60502

600/1000V, 105°C CVV CONTROL FLEXIBLE CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x1.5	9	100
3x1.5	9	120
4x1.5	10	140
5x1.5	11	180
6x1.5	12	190
7x1.5	12	200
8x1.5	13.5	240
9x1.5	14	270
10x1.5	15.5	300
11x1.5	16	330
12x1.5	16	340
13x1.5	16.5	370
14x1.5	16.5	390
15x1.5	17.5	430
16x1.5	17.5	440
17x1.5	18.5	480
18x1.5	18.5	490
19x1.5	18.5	500
20x1.5	19.5	540
21x1.5	19.5	550
22x1.5	20	600
23x1.5	20	600
24x1.5	21.5	620
25x1.5	22	660
26x1.5	22	680
27x1.5	22	690
28x1.5	22.5	730
29x1.5	22.5	740
30x1.5	22.5	760
31x1.5	24.5	850
32x1.5	24.5	860
33x1.5	24.5	870

600/1000V, 105°C CVV CONTROL FLEXIBLE CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
34x1.5	25	920	19x2.5	22	760
35x1.5	25	930	20x2.5	23	820
36x1.5	25	950	25x2.5	27	1060
37x1.5	25	960	26x2.5	27	1180
38x1.5	26	1010	27x2.5	27	1110
39x1.5	26	1020	28x2.5	28	1170
40x1.5	26	1100	29x2.5	28	1190
41x1.5	28	1110	30x2.5	28	1210
42x1.5	28	1110	31x2.5	29	1280
43x1.5	28	1130	32x2.5	29	1300
44x1.5	28	1130	33x2.5	29	1330
45x1.5	28.5	1190	34x2.5	30	1400
46x1.5	28.5	1190	35x2.5	30	1420
47x1.5	28.5	1200	36x2.5	30	1440
48x1.5	28.5	1210			
2x2.5	10.5	140			
3x2.5	11	170			
4x2.5	12	210			
5x2.5	13.5	270			
6x2.5	14.5	290			
7x2.5	14.5	320			
8x2.5	15.5	360			
9x2.5	16.5	400			
10x2.5	18	440			
11x2.5	18.5	490			
12x2.5	18.5	510			
13x2.5	19.5	560			
14x2.5	19.5	580			
15x2.5	20.5	640			
16x2.5	20.5	660			
17x2.5	22	720			
18x2.5	22	740			

600/1000V, 105°C VCT CONTROL FLEXIBLE CABLES



APPLICATION

For mobile equipment used in mines, factories, farms or household appliances in dry and damp areas.

CONSTRUCTION

Fine copper strands, acc.to VDE 0295, IEC 60228, class 5
PVC insulated
Insulation colour: 2 Cores – Light-Grey, Black
3 Cores – Light-Grey, Black, Red
4 Cores – Light-Grey, Black, Red, Blue
PVC Jacketed
Jacket colour: Black

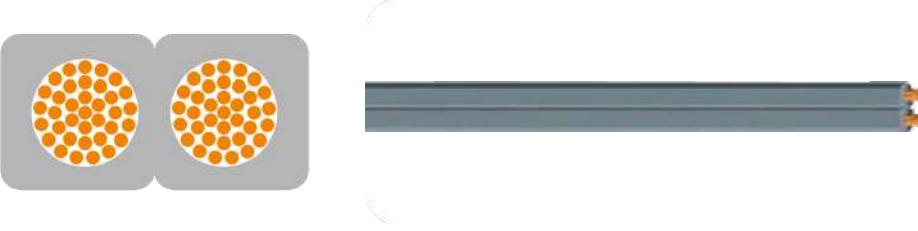
TECHNICAL DATA

Rated voltage: 600/1000V (refer to IEC 60502)
450/750V (refer to TIS 11-2531)
Test voltage: 3500V
Temperature: 70°C
Min. bending radius: 7.5 x OD (fixed installation)
15 x OD (flexible installation)
Reference standard: 600/1000V (refer to IEC 60502), 450/750V (refer to TIS 11-2531)

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x1.5	9.2	120
3x1.5	9.7	140
4x1.5	10.9	180
2x2.5	10.1	160
3x2.5	10.6	190
4x2.5	12.0	240

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x4.0	12.0	230
2x4.0	12.7	280
4x4.0	14.2	350
2x6.0	13.2	290
3x6.0	14.3	370
4x6.0	16.0	480

300V, 70°C, VFF PVC INSULATED FLAT FLEXIBLE CABLES



APPLICATION

For power supply for small indoor electrical appliances.

CONSTRUCTION

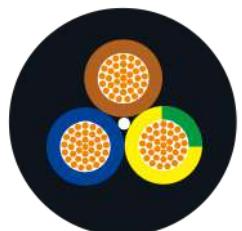
Fine copper strands acc. to BS 6360, IEC 60228, VDE 0295, class 5
PVC insulation
Insulation colour: Grey, Black, White, Green or Blue

TECHNICAL DATA

Rated voltage: 300/300V
Test voltage: 2000V
Temperature: 70°C
Min. bending radius: 6 x Ø
Reference standard: TIS 11-2531

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.5	3.2 x 6.2	22
2x0.5	3.2 x 6.2	22
2x0.75	3.4 x 6.6	28
2x0.75	3.4 x 6.6	28
2x1.0	3.6 x 7.0	33
2x1.5	3.9 x 7.6	44
2x2.5	4.8 x 9.4	65

JV-R, 90°C XLPE INSULATED PVC SHEATHED FLEXIBLE POWER CABLES



APPLICATION

Special Designed for general use in dry, humid and wet locations, for outdoor use, for agricultural applications.

CONSTRUCTION

Fine copper strands, acc.to. VDE 0295, IEC 60228, BS 6360, class 5

Cross-Linked Polyethylene (XLPE) insulated

Insulation colour: 1 core – Black

2 cores – Blue, Brown

3 cores – Green / Yellow, Brown, Blue or Brown, Black, Grey

4 cores – Green / Yellow, Brown, Black, Grey, or Brown, Black, Grey, Blue

5 cores – Green / Yellow, Blue, Brown, Black, Grey

6 cores & above – Green / Yellow & Black with printed number

PVC jacketed

Jacket colour: Black

TECHNICAL DATA

Rated voltage: 600/1000V

Test voltage: 3500V AC

Temperature: -15°C to +90°C

Fixed bending radius: 5 x Ø

Reference standard: IEC 60502-1, IEC 60332-1

JV-R, 90°C XLPE INSULATED PVC SHEATHED FLEXIBLE POWER CABLES

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x1.5			3x16	16.4	593
1x2.5	6.7	54	3x25	21.3	975
1x4.0	6.7	70	3x35	24.1	1319
1x6.0	7.3	90	3x50	27.8	1812
1x10	8.2	133	3x70	30.8	2463
1x16	9.2	189	4G1.5	9.7	129
1x25	11.0	284	4G2.5	10.7	175
1x35	12.1	381	4G4.0	12.0	243
1x50	13.8	517	4G6.0	13.4	328
1x70	15.7	712	4G10	15.7	505
1x95	17.6	923	4x16	18.2	749
1x120	19.2	1165	4x25	24.1	1245
1x150	21.5	1446	4x35	26.3	1671
1x185	23.9	1748	4x50	31.3	2313
1x240	26.9	2280	4x70	36.1	3204
1x300	29.6	2829	4x95	40.2	4126
1x400	33.8	3731	4x120	44.6	5245
1x500	37.4	4776	4x150	49.8	6573
1x630	42.7	6276	4x185	56.1	8050
2x1.5	8.2	90	4x240	64.5	10695
2x2.0	9.2	120	5G1.5	10.4	153
2x4.0	10.3	161	5G2.5	11.6	213
2x6.0	11.3	211	5G4.0	13.2	298
2x10	13.2	316	5G6.0	14.7	403
2x16	14.9	450	5G10	17.2	624
3G1.5	8.9	108	5G16	20.2	931
3G2.0	9.8	144	5G25	25.6	1555
3G4.0	11.0	198	5G35	29.3	2076
3G6.0	12.1	263	5G50	34.5	2878
3G10	14.3	405			

600/1000V, PNR/PNR WELDING & POWER FLEXIBLE CABLES



APPLICATION

Cables are double insulated design for use as power cable in switchgear, machine tool, construction and engineering equipment. Also use in transmission of high currents from the electric welding machine to the welding tool.

CONSTRUCTION

Fine copper strands, acc. to VDE 0295, IEC 60228, BS 6360, AS/NZS1125, class 5.
PVC-Nitrile Rubber (PNR) insulated
Insulation colour: White
PVC-Nitrile Rubber (PNR) jacketed
Jacket colour: Black/Orange

TECHNICAL DATA

Rated voltage: 600/1000V
Test voltage: 3500V AC
Temperature: -30°C to +90°C
Fixed bending radius: 5 x Ø
Reference standard: AS/NZS5000.1, IEC 60502-1, IEC 60332-1, AS/NZS 1995 and BS 638

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x6	7.8	110
1x10	9.0	125
1x16	10.3	185
1x25	11.6	265
1x35	12.9	360
1x50	14.7	495
1x70	17.4	720
1x95	19.9	955

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x120	21.7	1250
1x150	24.1	1465
1x185	26.6	1865
1x240	29.9	2425
1x300	34.0	3225
1x400	39.0	4150

250/440V, 105°C SINGLE CORE PVC FLEXIBLE CABLES AS/NZS 3191



APPLICATION

Wiring for communication, electronic equipment and switchboard.

CONSTRUCTION

Fine copper strands (Tinned or Plain) acc. to VDE 0295, IEC 60228, BS 6360, AS/NZS1125, class 5
V90HT (105°C) PVC insulated
Insulation colour: Red, Blue, Green, Yellow, White, Black, Brown, Violet, Orange, Grey
Stripes available by request

TECHNICAL DATA

Rated voltage: 250/440V
Test voltage: 1500V AC
Temperature: 105°C
Fixed bending radius: 15 x Ø
Reference standard: AS/NZS 3191

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
Tinned Copper Wire					
1x0.5	2.2	9.2	1x0.5	2.2	9
1x0.75	2.4	12.3	1x0.75	2.4	12
1x1.0	2.6	15.5	1x1.0	2.6	15
Plain Copper Wires					

250/250V, 90°C
LIGHT DUTY PVC INSULATED & SHEATHED
CIRCULAR FLEXIBLE CABLES AS/NZS 3191



APPLICATION

Wiring for lighting, appliance and control.

CONSTRUCTION

Fine copper strands acc. to VDE 0295, IEC 60228, BS 6360, AS/NZS1125, class 5

V90 PVC insulated

Insulation colour: 2 cores – Blue, Brown

3 cores – Green / Yellow, Brown, Blue

5V90 PVC jacketed

Jacket colour: White, Grey, Black

TECHNICAL DATA

Rated voltage: 250/250V

Test voltage: 1500V AC

Temperature: 90°C

Fixed bending radius: $15 \times \emptyset$

Reference standard: AS/NZS 3191

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.75	5.6	50
3x0.75	5.9	60

250/440V, 90°C
ORDINARY DUTY PVC INSULATED & SHEATHED
CIRCULAR FLEXIBLE CABLES AS3191



APPLICATION

Wiring for lighting, appliance and plug.

CONSTRUCTION

Fine copper strands acc. to VDE 0295, IEC 60228, BS 6360, AS/NZS1125, class 5

V90 PVC insulated

Insulation colour: 2 cores – Brown, Blue

3 cores – Brown, Blue, Green / Yellow

4 cores – Brown, White, Blue, Green / Yellow

5 cores – Brown, White, Orange, Blue, Green / Yellow

5V90 PVC jacketed

Jacket colour: White, Grey, Black, Orange

TECHNICAL DATA

Rated voltage: 250/440V

Test voltage: 1500V AC

Temperature: 90°C

Fixed bending radius: $15 \times \emptyset$

Reference standard: AS/NZS 3191

No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm ²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.75	6.3	56	4x1.5	9.3	135
2x1.0	6.7	66	4x2.5	11.3	203
2x1.5	7.7	88	4x4.0	12.2	300
3x0.75	6.7	65	5x0.75	8.1	102
3x1.0	7.0	77	5x1.0	8.6	130
3x1.5	8.3	109	5x1.5	10.3	170
3x2.5	10.2	172	5x2.5	12.4	250
3x4.0	11.3	225	5x4.0	13.9	360
4x0.75	7.3	80			
4x1.0	7.9	99			

600/1000V, 105°C SINGLE CORE PVC FLEXIBLE CABLES AS/NZS 3191



APPLICATION

Wiring for electrical interconnections.

CONSTRUCTION

Tinned fine copper strands acc. to VDE 0295, IEC 60228, BS 6360, AS/NZS1125, class 5
V90HT (105°C) PVC insulated

Insulation colour: Red, Blue, Green, Yellow, White, Black, Brown, Violet, Orange, Grey

Stripes available by request

TECHNICAL DATA

Rated voltage: 600/1000V

Test voltage: 3500V AC

Temperature: 105°C

Fixed bending radius: 15 x Ø

Reference standard: AS/NZS 3191, IEC 60332-1

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x0.5	2.6	11
1x0.75	2.8	14
1x1.0	3.4	18
1x1.5	3.7	23
1x2.5	4.2	34
1x4	4.8	50
1x6	6.3	71
1x10	7.8	123
1x16	9	203
1x25	11.5	303

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
1x35	13	412
1x50	15	607
1x70	17.5	837
1x95	19.5	1080
1x120	21.5	1280
1x150	24	1630
1x185	26.5	1940
1x240	30	2550

600/1000V, 105°C HEAVY DUTY PVC INSULATED & SHEATHED CIRCULAR FLEXIBLE CABLES AS/NZS 3191



APPLICATION

Extension leads for heavy duty application, like portable tools, factory machine, vacuum cleaner, sweepers etc.

CONSTRUCTION

Fine copper strands acc. to VDE 0295, IEC 60228, BS 6360, AS/NZS1125, class 5
V90 PVC insulated

Insulation colour: 3 cores – Brown, Blue, Green / Yellow

4 cores – Brown, White, Blue, Green / Yellow

5 cores – Brown, White, Orange, Blue, Green / Yellow

5V90 PVC jacketed

Jacket Colour: Grey, Orange

TECHNICAL DATA

Rated voltage: 600/1000V

Test voltage: 3500V AC

Temperature: 90°C

Fixed bending radius: 15 x Ø

Reference standard: AS3191, IEC 60332-1

No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)	No. of cores x Nominal Area (mm²)	Outer diameter approx. (mm)	Cable weight approx. (kg/km)
2x0.75	8.2		4x1.5	11.2	
2x1.0	8.5		4x2.5	13.2	
3x0.75	8.8		4x4.0	15.4	
3x1.0	9.1		5x0.75	10.7	
3x1.5	10.2		5x1.0	11.2	
3x2.5	12.2		5x1.5	12.5	
3x4.0	13.9		5x2.5	14.6	
4x0.75	9.8		5x4.0	17.5	
4x1.0	10.2				

TECHNICAL DATA

COPPER CONDUCTOR RESISTANCE (mm²)

Nominal cross sectional area (mm ²)	Minimum number of wires in the conductor	Maximum diameter of wires in the conductor		Maximum resistance of conductor At 20°C (Ohm/km)					
		Class 2		Class 5		Class 2		Class 5 & Class 6	
		Class 2 (mm)	Class 5 (mm)	Class 6 (mm)	Plain copper	Tinned copper	Plain copper	Tinned copper	
0.5	7	0.21	0.16	36	36.7	39	40.1		
0.75	7	0.21	0.16	24.5	24.8	26	26.7		
1	7	0.21	0.16	18.1	18.2	19.5	20		
1.5	7	0.26	0.16	12.1	12.2	13.3	13.7		
2.5	7	0.26	0.16	7.41	7.56	7.98	8.21		
4	7	0.31	0.16	4.61	4.70	4.95	5.09		
6	7	0.31	0.21	3.08	3.11	3.3	3.39		
10	7	0.41	0.21	1.83	1.84	1.91	1.95		
16	7	0.41	0.21	1.15	1.16	1.21	1.24		
25	7	0.41	0.21	0.727	0.734	0.78	0.795		
35	7	0.41	0.21	0.524	0.529	0.554	0.565		
50	19	0.41	0.31	0.387	0.391	0.386	0.393		
70	19	0.51	0.31	0.268	0.270	0.272	0.277		
95	19	0.51	0.31	0.193	0.195	0.206	0.210		
120	37	0.51	0.31	0.153	0.154	0.161	0.164		
150	37	0.51	0.31	0.124	0.126	0.129	0.132		
185	37	0.51	0.41	0.0991	0.1	0.106	0.108		
240	61	0.51	0.41	0.0762	0.0762	0.0891	0.0817		
300	61	0.51	0.41	0.0607	0.0607	0.0641	0.0654		
400	61	0.51		0.0475	0.0475	0.0486			
500	61	0.61		0.0369	0.0369	0.0384			
630	91	0.61		0.0286	0.0286	0.0287			
800	91			0.0224	0.0224				
1000	91			0.0177	0.0177				

TECHNICAL DATA

SOLAR PV1-F 120°C HALOGEN FREE PV CABLES

Current Carrying Capacity

Ambient temperature: 60°C
Max. conductor temperature: 120°C

Current Carrying Capacity Of Pv-cables

Nominal cross sectional area (mm ²)	Current carrying capacity according to method of installation		
	Single cable free in air (A)	Single cable on a surface (A)	Two loaded cables Touching, on a surface (A)
1.5	30	29	24
2.5	41	39	33
4.0	55	52	44
6.0	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176

Conversion factor for deviating temperatures

Ambient Temperature (°C)	Conversion factor
bis 60	1.00
70	0.91
80	0.82
90	0.71
100	0.58
110	0.41

Groups

For groups reduction factors according to IEC 60364-5-52, Table A.52-17 shall apply.

TECHNICAL DATA

**600/1000V 105°C
SINGLE CORE PVC FLEXIBLE WIRE**

Current-carrying capacity (amperes)

Conductor cross-sectional area (mm ²)	Max. Current Rating at ambient temperature of 45°C touching (A)	Max Conductor Resistant at 20°C (Ω/km)	Short circuit current (r.m.s over duration)	
			0.2 second (kA)	3 second (kA)
1.5	21	13.30	0.34	0.09
2.5	30	7.98	0.56	0.14
4.0	39	4.95	0.89	0.23
6.0	50	3.30	1.34	0.35
10.0	68	1.91	2.23	0.58
16.0	91	1.21	3.57	0.92
25.0	120	0.780	5.58	1.44
35.0	148	0.554	7.82	2.02
50.0	182	0.386	11.17	2.88
70.0	228	0.272	15.64	4.04
95.0	285	0.206	21.22	5.48
120.0	331	0.161	26.81	6.92

TECHNICAL DATA

**600/1000V 105°C
SINGLE CORE LSHF FLEXIBLE WIRE**

Current-carrying capacity (amperes)

Conductor cross-sectional area (mm ²)	Max. Current Rating at ambient temperature of 45°C touching (A)	Max Conductor Resistant at 20°C (Ω/km)	Short circuit current (r.m.s over duration)	
			0.2 second (kA)	3 second (kA)
1.5	24	13.3	0.48	0.12
2.5	34	7.98	0.80	0.21
4.0	46	4.95	1.28	0.33
6.0	58	3.30	1.92	0.50
10.0	80	1.91	3.20	0.83
16.0	107	1.21	5.12	1.32
25.0	143	0.780	7.99	2.06
35.0	176	0.554	11.19	2.89
50.0	215	0.386	15.99	4.13
70.0	275	0.272	22.38	5.78
95.0	341	0.206	30.38	7.84
120.0	396	0.161	38.37	9.91

Note

Short circuit condition:
(1) Initial temperature of conductor: 90°C
(2) Final temperature of conductor: 250°C

TECHNICAL DATA

HO7RN-F HEAVY DUTY RUBBER CABLES

Current Ratings

TABLE 4H1A

Conductor cross-sectional area 1 (mm ²)	Single-phase a.c. or d.c.		Three-phase a.c.	Single-phase a.c. or d.c.	
	1 two-core cable, with or without protective conductor		1 three-core cable, Four-core or Five-core cables	2-single-core cables	
	2 (A)	3 (A)	4 (A)		
4	30	26	-		
6	39	34	-		
10	51	47	-		
16	73	63	-		
25	97	83	-		
35	-	102	140		
50	-	124	175		
70	-	158	216		
95	-	192	258		
120	-	222	302		
150	-	255	347		
185	-	291	394		
240	-	343	471		
300	-	394	541		
400	-	-	644		
500	-	-	738		
630	-	-	861		

Ambient temperature: 30°C
Conductor operating temperature: 60°C

TECHNICAL DATA

Voltage drop (per ampere per metre)

Table 4H1B

Conductor cross-sectional area 1 (mm ²)	Two-core Cable d.c. 2 (mV/A/m)	Two-core able Single-phase a.c.			1 Three core, four core or five core, three-phase a.c. 4 (mV/A/m)	2 single-core touching d.c. 5 (mV/A/m)			6 (mV/A/m)
		3 (mV/A/m)	r	x	z	X	z	R	
4	12	12				10			
6	7.8	7.8				6.7			
10	4.6	4.6				4.0			
16	2.9	2.9				2.5			
	<i>r</i>	<i>x</i>	<i>z</i>	<i>r</i>	<i>X</i>	<i>z</i>		<i>R</i>	<i>x</i>
25	1.80	1.80	0.175	1.85	1.55	0.150	1.15		
35	-	-	-	-	1.10	0.150	1.15	1.31	1.31
50	-	-	-	-	0.83	0.145	0.84	0.91	0.91
70	-	-	-	-	0.57	0.140	0.58	0.64	0.64
95	-	-	-	-	0.42	0.135	0.44	0.49	0.49
120	-	-	-	-	0.33	0.135	0.36	0.38	0.38
150	-	-	-	-	0.27	0.130	0.30	0.31	0.31
185	-	-	-	-	0.22	0.130	0.26	0.25	0.25
240	-	-	-	-	0.170	0.125	0.21	0.190	0.195
300	-	-	-	-	0.135	0.125	0.185	0.150	0.155
400	-	-	-	-	-	-	-	0.115	0.120
500	-	-	-	-	-	-	-	0.090	0.099
630	-	-	-	-	-	-	-	0.068	0.079

Note

A larger voltage drop will result if the cables are spaced.

TECHNICAL DATA

WELDING FLEXIBLE RUBBER CABLES

Duty cycle

The duty cycle is defined as the time for which the current flows expressed as a percentage of the complete cycle, which is taken as 5 minutes. Since the length of time for which current flows during a welding operation varies, occasional to continuous, the duty cycle can vary from as little as 20% to a maximum of 100% on automatic operation.

Automatic welding up to 100%.

Semi-automatic welding 30-85%.

Manual welding 30-60%.

Intermittent or occasional welding up to 20%.

Size (mm ²)	Max duty cycle		
	100%	60%	30%
16	135	175	245
25	180	230	330
35	225	290	410
50	285	370	520
70	355	460	650
95	430	560	790
120	500	650	910
185	135	850	1200

Loading Current Values (amperes)

Nominal Cross Sectional Area (mm ²)	Loading Current in Amps for the following duty cycles			
	100%	85%	60%	30%
16	135	145	175	245
25	180	195	230	330
35	225	245	290	410
50	285	310	370	520
70	355	385	460	650
95	430	470	560	790
120	500	540	650	910
185	660	715	850	1200

TECHNICAL DATA

Correction Factors

Cable operating temperature also varies according to the prevailing ambient temperature. These cables are designed to give optimum performance up to an operating temperature of 85°C at an ambient temperature of 25°C.

The reduction factors for increased ambient temperature are

Ambient Temp (°C)	Correction Factor
30	0.96
35	0.91
40	0.87
45	0.82
50	0.76
55	0.79

Conductor Resistance (ohms per kilometre) and voltage drop

Nominal Cross Sectional Area (mm ²)	Maximum Resistance at 20°C Tinned (ohms/km)	Voltage Drop (For Guidance Only) Volts Per 100 Amp per 10 metres (DC Current*)		
		20°C V	60°C V	85°C V
16	1.24	1.24	1.43	1.56
25	0.795	0.795	0.92	0.998
35	0.565	0.565	0.654	0.709
50	0.393	0.393	0.455	0.493
70	0.277	0.277	0.321	0.348
95	0.21	0.21	0.246	0.264
120	0.164	0.164	0.19	0.206
185	0.108	0.108	0.125	0.136

TECHNICAL DATA

FLEXIBLE CORDS, NON-ARMOURED

Current-carrying capacity (amperes)

Conductor operating temperature: 60°C

Conductor Cross-sectional area (mm ²)	Current carrying capacity		Maximum mass supported by twin flexible cord (see Regulations 522.7.2 & 559.6.1.5) (kg)
	Single-phase a.c. (A)	Single-phase a.c. (A)	
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

Notes

RATING FACTOR FOR AMBIENT TEMPERATURE	
60°C thermoplastic or thermosetting insulated cords	
Ambient Temp (°C)	Rating Factor
35	0.91
40	0.82
45	0.71
50	0.58
55	0.41
90°C thermoplastic or thermosetting insulated cords	
Ambient Temp (°C)	Rating Factor
35 to 50	1.0
55	0.96
60	0.83
65	0.67
70	0.47
180°C thermosetting insulated cords:	
Ambient Temp (°C)	Rating Factor
35 to 120	1.0
125	0.96
130	0.85
135	0.74
140	0.6
145	0.42

TECHNICAL DATA

VOLTAGE DROP (per amperes per meter)

Conductor cross-sectional area (mm ²)	d.c. or single-phase a.c. (mV/A/m)	Three-phase a.c. (mV/A/m)
0.5	193	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

Note

* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

90°C thermoplastic or thermosetting insulated	1.09
180°C thermosetting insulated	1.31
185°C glass fiber	1.43

Project Reference



HONGKONG Kai Tak Sports Park

HONGKONG YOHO-WEST



HONGKONG NOVO Land



Nanning International Convention and Exhibition Center



Project Reference

Nur Sultan City Government



Shiji Bridge



OLYMPIC STADIUM



Pazhou International Convention and Exhibition Center



STAR CITY



ONE PARK

Global Layout



POWERING ⁷
THE FUTURE