



Reliable Quality  
Strong Performance

# ***HARMONIZED CABLES***



**JOHNSON CAB ELECTRICALS LIMITED  
(INDIA)**

AN ISO 9001:2015 CERTIFIED COMPANY

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## Introduction

Johnsoncab Electricals Ltd. (Formerly Known as Johnson Cables) is an ISO-certified cable manufacturer with 36+ years of experience and two advanced units spanning 1,66,400 sq. ft. With capacity to wrap the Burj Khalifa 1 lakh times monthly, Johnson delivers high-quality, customizable cables across infrastructure, industrial, solar, and energy sectors—backed by in-house PVC compounding.

## Vision

To be a globally admired cable manufacturer, delivering reliable, innovative, and environmentally responsible energy transmission solutions across homes, industries, and infrastructure.

## Mission

To ensure safety, performance, and sustainability through standardized systems; Meet global certifications IS, CE, ROHS, and TUV; Uphold Zero Defect Manufacturing With ZED; Expand Infrastructure, R&D and Reach; And Deliver every Order with Precision and Customer Focus.

## Quality Policy

At Johnson, quality is the foundation of every cable we manufacture. Our integrated quality assurance system complies with:

- ♦ ISO 9001:2015 - Quality Management
- ♦ ISO 14001:2015 - Environmental Management
- ♦ ISO 45001:2018 - Health & Safety
- ♦ CE, ROHS, TUV Rheinland Type-Tested, and ZED Certified

Zero Defect is not just a goal - it is a discipline. Each stage, from raw material inspection to final testing, is tightly monitored to deliver failure-free performance.

### Our promise:

To deliver superior cables with consistent quality, maximum safety, and responsible manufacturing - every meter, every time.

## Why Us?



**Legacy of Excellence** : With over 36 years of expertise since 1989, Johnson Cables has become a trusted name in wire and cable manufacturing through consistent innovation and a mature production system.



**Customized Cable Solutions** : We provide tailor-made wire and cable systems designed to meet your specific industrial, residential or commercial requirements.



**ZED Certified** : Zero Effect on Environment represents our commitment to eco-conscious manufacturing, material efficiency, and sustainable operations in line with ISO 14001 and ZED standards.



**Swift & Reliable Delivery** : Enjoy lightning-fast fulfilment standard orders ship in 2-5 days, while custom solutions are delivered within 10-25 days.



**24/7 Customer Support** : Our dedicated pre-sales and after-sales team is available round the clock, ensuring prompt responses to your needs—within just 30 minutes.



**Globally Certified Quality** : our product compliance as per UL, CUL, CE, VDE, TÜV, SAA, IEC, ISO and more—meeting stringent international safety and quality standards.

# JOHNSON H07RN-F CABLE

GENERALLY CONFORMS TO BS EN 50525, IEC 60245, BS EN 7655, IEC 60228

## Application

These cables are designed to provide high flexibility and have the capacity to withstand oil, weather, grease, mechanical and thermal stresses. Applications include handling equipment, worksites, port areas and dams. Also for use in drainage and water treatment, cold environments, Oil Resistance application and severe industrial environments.



INDUSTRIES



HOUSEHOLD  
APPLIANCES



DRAINAGE & WATER  
TREATMENT

## Insulation Color Code

- 1 core : ● Black or other Colour
- 2 core : ● Blue, ● Brown
- 3 core : ● Green/Yellow, ● Blue, ● Brown or  
● Blue, ● Brown, ● Black
- 4 core : ● Green/Yellow, ● Brown, ● Black,  
● Gray or ● Green/Yellow, ● Blue,  
● Brown, ● Black
- 5 core : ● Green/Yellow, ● Blue, ● Brown,  
● Black, ● Gray
- 6 core & above : ● Green/Yellow, ● Black

## Cable Feature

- ♦ Design For Heavy Duty Use
- ♦ Very Good Long Term Performance
- ♦ Excellent Resistance To Oil, chemical & Solvent
- ♦ Excellent Weather Resistance
- ♦ Excellent Mechanical & Electricals Property
- ♦ Very Good Current Carrying Capacity
- ♦ Very Good Thermal Property

## Cable Construction

Conductor Class 5 Flexible Stranded Plain Copper (IEC 60228)  
Insulation EPR (Ethylene Propylene Rubber) EI4  
Outer Sheath EM2 Type NBR Rubber

## Technical Data

Test Voltage : 2500 V  
Voltage : 450/750V  
Flame Propagation : Flame Retardant test as per IEC 60332-1  
Operating Temperature range of -25°C ❄️ to +90°C 🔥  
Volume Resistivity at 90°C (Ohm-cm) Min. : 1 X 10<sup>12</sup>  
Tensile Strength Min. (N/mm<sup>2</sup>) : 5.00  
Elongation at Break Min. (%) : 200  
Tensile Strength Min. (N/mm<sup>2</sup>) : 10.00  
Elongation at Break Min. (%) : 300  
Minimum Bending Radius : 8 X Cable Dia

## Outer Sheath

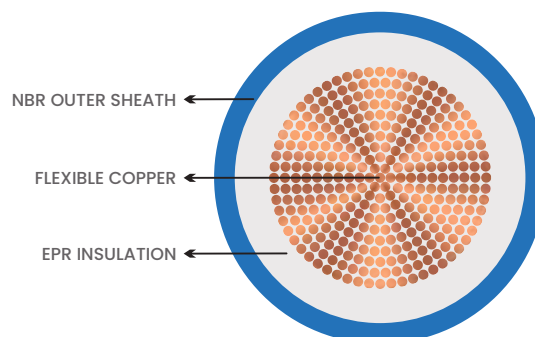
Weather/Oil Resistance and Fire Retardant NBR Rubber EM2 (Black Colour OR Blue Colour And other Colour As per Customer Requirement)

**Note :** There is the option for core colour & sheath colour as per customer requirement.

## Packing Details

100 Meter  
200 Meter  
500 Meter  
1000 Meter  
2000 Meter  
or As per Customer Requirement

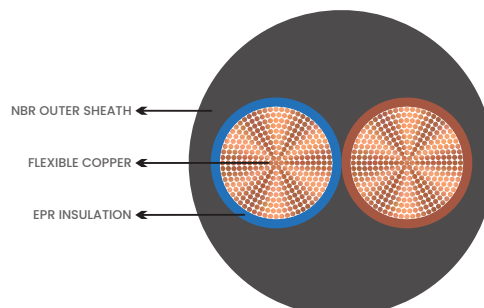
## JOHNSON SINGLE CORE H07RN-F TYPE CABLE



### EPR RUBBER INSULATED & NBR RUBBER SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS<br>(MM) | (NOM.)<br>OUTER SHEATH<br>THICKNESS<br>(MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAX. DC<br>CONDUCTOR<br>RESISTANCE<br>OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------------------------------|
| 1 X 1.5                          | 30                         | 0.250                          | 0.80                                      | 1.40                                        | 6.30                                     | 13.30                                                              |
| 1 X 2.5                          | 50                         | 0.250                          | 0.90                                      | 1.40                                        | 6.80                                     | 7.98                                                               |
| 1 X 4                            | 56                         | 0.300                          | 1.00                                      | 1.50                                        | 7.70                                     | 4.95                                                               |
| 1 X 6                            | 84                         | 0.300                          | 1.00                                      | 1.60                                        | 8.70                                     | 3.30                                                               |
| 1 X 10                           | 140                        | 0.300                          | 1.20                                      | 1.80                                        | 10.30                                    | 1.91                                                               |
| 1 X 16                           | 224                        | 0.300                          | 1.20                                      | 1.90                                        | 11.80                                    | 1.21                                                               |
| 1 X 25                           | 350                        | 0.300                          | 1.40                                      | 2.00                                        | 14.10                                    | 0.780                                                              |
| 1 X 35                           | 490                        | 0.300                          | 1.40                                      | 2.20                                        | 15.50                                    | 0.554                                                              |
| 1 X 50                           | 703                        | 0.300                          | 1.60                                      | 2.40                                        | 17.90                                    | 0.386                                                              |
| 1 X 70                           | 988                        | 0.300                          | 1.60                                      | 2.60                                        | 20.50                                    | 0.272                                                              |
| 1 X 95                           | 1349                       | 0.300                          | 1.80                                      | 2.80                                        | 23.40                                    | 0.206                                                              |
| 1 X 120                          | 608                        | 0.500                          | 1.80                                      | 3.00                                        | 25.90                                    | 0.161                                                              |
| 1 X 150                          | 760                        | 0.500                          | 2.00                                      | 3.20                                        | 28.20                                    | 0.129                                                              |
| 1 X 185                          | 931                        | 0.500                          | 2.20                                      | 3.40                                        | 31.10                                    | 0.106                                                              |
| 1 X 240                          | 1221                       | 0.500                          | 2.40                                      | 3.50                                        | 34.30                                    | 0.0801                                                             |
| 1 X 300                          | 1517                       | 0.500                          | 2.60                                      | 3.60                                        | 38.50                                    | 0.0641                                                             |
| 1 X 400                          | 2035                       | 0.500                          | 2.80                                      | 3.80                                        | 42.90                                    | 0.0486                                                             |

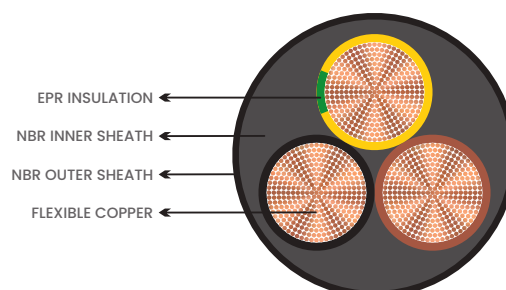
## JOHNSON TWO CORE H07RN-F TYPE CABLE



### EPR RUBBER INSULATED & NBR RUBBER SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS<br>(MM) | (NOM.)<br>OUTER SHEATH<br>THICKNESS<br>(MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAX. DC<br>CONDUCTOR<br>RESISTANCE<br>OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------------|
| 2 X 1                            | 32                         | 0.200                          | 0.80                                      | 1.30                                        | 8.60                                     | 19.50                                                             |
| 2 X 1.5                          | 30                         | 0.250                          | 0.80                                      | 1.50                                        | 9.40                                     | 13.30                                                             |
| 2 X 2.5                          | 50                         | 0.250                          | 0.90                                      | 1.70                                        | 11.20                                    | 7.98                                                              |
| 2 X 4                            | 56                         | 0.300                          | 1.00                                      | 1.80                                        | 12.80                                    | 4.95                                                              |
| 2 X 6                            | 84                         | 0.300                          | 1.00                                      | 2.00                                        | 14.40                                    | 3.30                                                              |
| 2 X 10                           | 140                        | 0.300                          | 1.20                                      | 3.10                                        | 19.50                                    | 1.91                                                              |
| 2 X 16                           | 224                        | 0.300                          | 1.20                                      | 3.30                                        | 22.60                                    | 1.21                                                              |
| 2 X 25                           | 350                        | 0.300                          | 1.40                                      | 3.60                                        | 27.20                                    | 0.780                                                             |

# JOHNSON THREE CORE H07RN-F TYPE CABLE



## EPR RUBBER INSULATED & NBR RUBBER SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS<br>(MM) | (NOM.)<br>OUTER SHEATH<br>THICKNESS<br>(MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAX. DC<br>CONDUCTOR<br>RESISTANCE<br>OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------------|
| 3 X 1                            | 32                         | 0.200                          | 0.80                                      | 1.40                                        | 9.20                                     | 19.50                                                             |
| 3 X 1.5                          | 30                         | 0.250                          | 0.80                                      | 1.60                                        | 10.00                                    | 13.30                                                             |
| 3 X 2.5                          | 50                         | 0.250                          | 0.90                                      | 1.80                                        | 12.00                                    | 7.98                                                              |
| 3 X 4                            | 56                         | 0.300                          | 1.00                                      | 1.90                                        | 13.60                                    | 4.95                                                              |
| 3 X 6                            | 84                         | 0.300                          | 1.00                                      | 2.10                                        | 15.30                                    | 3.30                                                              |
| 3 X 10                           | 140                        | 0.300                          | 1.20                                      | 3.30                                        | 20.70                                    | 1.91                                                              |
| 3 X 16                           | 224                        | 0.300                          | 1.20                                      | 3.50                                        | 24.00                                    | 1.21                                                              |
| 3 X 25                           | 350                        | 0.300                          | 1.40                                      | 3.80                                        | 28.90                                    | 0.780                                                             |
| 3 X 35                           | 490                        | 0.300                          | 1.40                                      | 4.10                                        | 31.60                                    | 0.554                                                             |
| 3 X 50                           | 703                        | 0.300                          | 1.60                                      | 4.50                                        | 36.70                                    | 0.386                                                             |
| 3 X 70                           | 988                        | 0.300                          | 1.60                                      | 4.80                                        | 42.00                                    | 0.272                                                             |
| 3 X 95                           | 1349                       | 0.300                          | 1.80                                      | 5.30                                        | 48.40                                    | 0.206                                                             |
| 3 X 120                          | 608                        | 0.500                          | 1.80                                      | 5.90                                        | 53.50                                    | 0.161                                                             |
| 3 X 150                          | 760                        | 0.500                          | 2.00                                      | 6.10                                        | 58.60                                    | 0.129                                                             |
| 3 X 185                          | 931                        | 0.500                          | 2.20                                      | 6.50                                        | 64.80                                    | 0.106                                                             |
| 3 X 240                          | 1221                       | 0.500                          | 2.40                                      | 7.10                                        | 72.60                                    | 0.0801                                                            |
| 3 X 300                          | 1517                       | 0.500                          | 2.60                                      | 7.70                                        | 82.40                                    | 0.0641                                                            |
| 3 X 400                          | 2035                       | 0.500                          | 2.80                                      | 8.50                                        | 92.60                                    | 0.0486                                                            |



# JOHNSON FOUR CORE H07RN-F TYPE CABLE



## EPR RUBBER INSULATED & NBR RUBBER SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS<br>(MM) | (NOM.)<br>OUTER SHEATH<br>THICKNESS<br>(MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAX. DC<br>CONDUCTOR<br>RESISTANCE<br>OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------------------------------|
| 4 X 1                            | 32                         | 0.200                          | 0.80                                      | 1.50                                        | 10.20                                    | 19.50                                                              |
| 4 X 1.5                          | 30                         | 0.250                          | 0.80                                      | 1.70                                        | 11.10                                    | 13.30                                                              |
| 4 X 2.5                          | 50                         | 0.250                          | 0.90                                      | 1.90                                        | 13.20                                    | 7.98                                                               |
| 4 X 4                            | 56                         | 0.300                          | 1.00                                      | 2.00                                        | 15.10                                    | 4.95                                                               |
| 4 X 6                            | 84                         | 0.300                          | 1.00                                      | 2.30                                        | 17.10                                    | 3.30                                                               |
| 4 X 10                           | 140                        | 0.300                          | 1.20                                      | 3.40                                        | 22.80                                    | 1.91                                                               |
| 4 X 16                           | 224                        | 0.300                          | 1.20                                      | 3.60                                        | 26.40                                    | 1.21                                                               |
| 4 X 25                           | 350                        | 0.300                          | 1.40                                      | 4.10                                        | 32.20                                    | 0.780                                                              |
| 4 X 35                           | 490                        | 0.300                          | 1.40                                      | 4.40                                        | 35.30                                    | 0.554                                                              |
| 4 X 50                           | 703                        | 0.300                          | 1.60                                      | 4.80                                        | 40.90                                    | 0.386                                                              |
| 4 X 70                           | 988                        | 0.300                          | 1.60                                      | 5.20                                        | 47.00                                    | 0.272                                                              |
| 4 X 95                           | 1349                       | 0.300                          | 1.80                                      | 5.90                                        | 54.40                                    | 0.206                                                              |
| 4 X 120                          | 608                        | 0.500                          | 1.80                                      | 6.00                                        | 59.30                                    | 0.161                                                              |
| 4 X 150                          | 760                        | 0.500                          | 2.00                                      | 6.50                                        | 65.20                                    | 0.129                                                              |
| 4 X 185                          | 931                        | 0.500                          | 2.20                                      | 6.80                                        | 72.10                                    | 0.106                                                              |
| 4 X 240                          | 1221                       | 0.500                          | 2.40                                      | 7.30                                        | 80.60                                    | 0.0801                                                             |
| 4 X 300                          | 1517                       | 0.500                          | 2.60                                      | 8.10                                        | 91.80                                    | 0.0641                                                             |
| 4 X 400                          | 2035                       | 0.500                          | 2.80                                      | 9.40                                        | 104.50                                   | 0.0486                                                             |

## JOHNSON FIVE CORE H07RN-F TYPE CABLE



### EPR RUBBER INSULATED & NBR RUBBER SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS<br>(MM) | (NOM.)<br>OUTER SHEATH<br>THICKNESS<br>(MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAX. DC<br>CONDUCTOR<br>RESISTANCE<br>OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------------------------------|
| 5 X 1                            | 32                         | 0.200                          | 0.80                                      | 1.60                                        | 11.30                                    | 19.50                                                              |
| 5 X 1.5                          | 30                         | 0.250                          | 0.80                                      | 1.80                                        | 12.20                                    | 13.30                                                              |
| 5 X 2.5                          | 50                         | 0.250                          | 0.90                                      | 2.00                                        | 14.50                                    | 7.98                                                               |
| 5 X 4                            | 56                         | 0.300                          | 1.00                                      | 2.20                                        | 16.80                                    | 4.95                                                               |
| 5 X 6                            | 84                         | 0.300                          | 1.00                                      | 2.50                                        | 19.10                                    | 3.30                                                               |
| 5 X 10                           | 140                        | 0.300                          | 1.20                                      | 3.60                                        | 25.10                                    | 1.91                                                               |
| 5 X 16                           | 224                        | 0.300                          | 1.20                                      | 3.90                                        | 29.40                                    | 1.21                                                               |
| 5 X 25                           | 350                        | 0.300                          | 1.40                                      | 4.40                                        | 35.80                                    | 0.780                                                              |
| 5 X 35                           | 490                        | 0.300                          | 1.40                                      | 4.90                                        | 39.80                                    | 0.554                                                              |



# JOHNSON SINGLE CORE H05V-K & H07V-K CABLE

GENERALLY CONFORMS TO H05V-K & H07V-K, EN 50363-3, EN 50525-2-31, IEC 60227, IEC 60228

SINGLE CORE PVC TI I TYPE INSULATED NON SHEATHED CABLE FOR INTERNAL WIRING

## Application

H05V-K & H07V-K Cable is used for the internal wiring in lighting applications. It can also be used in electronic appliances for measuring, regulating and controlling.

## Insulation Color Code

- |          |                |
|----------|----------------|
| ● Black  | ● Red          |
| ● Blue   | ● Violet       |
| ● Brown  | ○ White        |
| ● Gray   | ● Green        |
| ● Orange | ● Green/Yellow |
| ● Pink   |                |

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Very good Heat Resistance Property for Insulation
- ◆ Special Grade Insulation PVC type TI I to EN 50363-3
- ◆ Very good Insulation Resistance Property
- ◆ Excellent Mechanical & Electricals property
- ◆ Very good Current carrying capacity
- ◆ Very good Thermal property for Insulation

## Packing Details

100 Meter

200 Meter

500 Meter

1000 Meter

2000 Meter

or As per Customer Requirement

## Technical Data

Voltage : 300/500 V (H05V-K)

Voltage : 450/750 V (H07V-K)

Test Voltage : 2000 V (H05V-K)

Test Voltage : 2500 V (H07V-K)

Short Circuit Temperature : 160°C

Flame Propagation : Flame Retardant test as per IEC 60332-1

Operating temperature range of -15°C ❄️ to +70°C 🔥

Volume Resistivity at 27° C Min. :  $1 \times 10^{13} \Omega\text{-cm}$

Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>

Elongation at Break Min. (%) : 150%

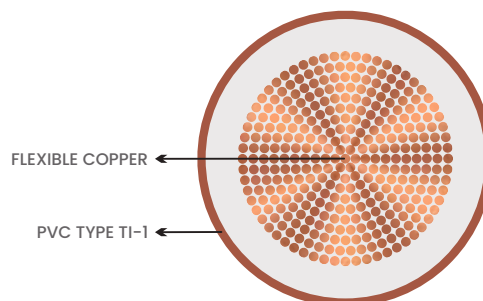
Minimum Bending Radius :  $\geq 6 \times \text{Cable Dia}$

## Cable Construction

Conductor : Class 5 Flexible bare Copper IEC 60228

Insulation : Special PVC type TI I to EN 50363-3

# JOHNSON SINGLE CORE H05V-K & H07V-K Cable



## TECHNICAL CHART (SINGLE CORE) H05V-K

PVC TI 1 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 0.5                          | 16                         | 0.200                          | 0.60                                   | 2.10                             | 39.00                                                       |
| 1 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 2.30                             | 26.00                                                       |
| 1 X 1.0                          | 32                         | 0.200                          | 0.60                                   | 2.70                             | 19.50                                                       |

## TECHNICAL CHART (SINGLE CORE) H07V-K

PVC TI 1 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 3.00                             | 13.30                                                       |
| 1 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 3.60                             | 7.98                                                        |
| 1 X 4                            | 56                         | 0.300                          | 0.80                                   | 4.10                             | 4.95                                                        |
| 1 X 6                            | 84                         | 0.300                          | 0.80                                   | 5.10                             | 3.30                                                        |
| 1 X 10                           | 140                        | 0.300                          | 1.00                                   | 6.20                             | 1.91                                                        |
| 1 X 16                           | 224                        | 0.300                          | 1.00                                   | 7.80                             | 1.21                                                        |
| 1 X 25                           | 350                        | 0.300                          | 1.20                                   | 9.80                             | 0.780                                                       |
| 1 X 35                           | 490                        | 0.300                          | 1.20                                   | 10.80                            | 0.554                                                       |
| 1 X 50                           | 703                        | 0.300                          | 1.40                                   | 12.80                            | 0.386                                                       |
| 1 X 70                           | 988                        | 0.300                          | 1.40                                   | 15.00                            | 0.272                                                       |
| 1 X 95                           | 1349                       | 0.300                          | 1.60                                   | 17.50                            | 0.206                                                       |
| 1 X 120                          | 608                        | 0.500                          | 1.60                                   | 19.00                            | 0.161                                                       |
| 1 X 150                          | 760                        | 0.500                          | 1.80                                   | 21.00                            | 0.129                                                       |
| 1 X 185                          | 931                        | 0.500                          | 2.00                                   | 24.00                            | 0.106                                                       |
| 1 X 240                          | 1221                       | 0.500                          | 2.20                                   | 27.00                            | 0.0801                                                      |

# JOHNSON SINGLE CORE H05V2-K & H07V2-K CABLE

GENERALLY CONFORMS TO H05V2-K & H07V2-K, EN 50363-3, EN 50525-2-31, IEC 60227, IEC 60228

SINGLE CORE HEAT RESISTANCE HR PVC TI 3 TYPE INSULATED NON SHEATHED CABLE FOR INTERNAL WIRING

## Application

H05V2-K & H07V2-K Cable is used for the internal wiring in lighting applications. It can also be used in electronic appliances for measuring, regulating and controlling.

## Insulation Color Code

- Black      ● Red
- Blue      ● Violet
- Brown    ○ White
- Gray      ● Green
- Orange   ● Green/Yellow
- Pink

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Very good Heat Resistance Property for Insulation
- ◆ Special Grade Insulation PVC type TI 3 to EN 50363-3
- ◆ Very good Insulation Resistance Property
- ◆ Excellent Mechanical & Electricals property
- ◆ Very good Current carrying capacity
- ◆ Very good Thermal property for Insulation

## Packing Details

100 Meter

200 Meter

500 Meter

1000 Meter

2000 Meter

or As per Customer Requirement

## Technical Data

Voltage : 300/500 V (H05V2-K)

Voltage : 450/750 V (H07V2-K)

Test Voltage : 2000 V (H05V2-K)

Test Voltage : 2500 V (H07V2-K)

Short Circuit Temperature : 160°C

Flame Propagation : Flame Retardant test as per IEC 60332-1

Operating temperature range of -20°C ❄️ to +90°C 🔥

Volume Resistivity at 27° C Min. :  $1 \times 10^{13} \Omega\text{-cm}$

Tensile Strangth Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>

Elongation at Break Min. (%) : 150%

Minimum Bending Radius :  $\geq 6 \times \text{Cable Dia}$

## Cable Construction

Conductor : Class 5 Flexible bare Copper IEC 60228

Insulation : Heat Resistance PVC type TI 3 to EN 50363-3

# JOHNSON SINGLE CORE H05V2-K & H07V2-K Cable



## TECHNICAL CHART (SINGLE CORE) H05V2-K

HR PVC TI 3 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 0.5                          | 16                         | 0.200                          | 0.60                                   | 2.10                             | 39.00                                                       |
| 1 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 2.30                             | 26.00                                                       |
| 1 X 1.0                          | 32                         | 0.200                          | 0.60                                   | 2.70                             | 19.50                                                       |

## TECHNICAL CHART (SINGLE CORE) H07V2-K

HR PVC TI 3 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 3.00                             | 13.30                                                       |
| 1 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 3.60                             | 7.98                                                        |
| 1 X 4                            | 56                         | 0.300                          | 0.80                                   | 4.10                             | 4.95                                                        |
| 1 X 6                            | 84                         | 0.300                          | 0.80                                   | 5.10                             | 3.30                                                        |
| 1 X 10                           | 140                        | 0.300                          | 1.00                                   | 6.20                             | 1.91                                                        |
| 1 X 16                           | 224                        | 0.300                          | 1.00                                   | 7.80                             | 1.21                                                        |
| 1 X 25                           | 350                        | 0.300                          | 1.20                                   | 9.80                             | 0.780                                                       |
| 1 X 35                           | 490                        | 0.300                          | 1.20                                   | 10.80                            | 0.554                                                       |
| 1 X 50                           | 703                        | 0.300                          | 1.40                                   | 12.80                            | 0.386                                                       |
| 1 X 70                           | 988                        | 0.300                          | 1.40                                   | 15.00                            | 0.272                                                       |
| 1 X 95                           | 1349                       | 0.300                          | 1.60                                   | 17.50                            | 0.206                                                       |
| 1 X 120                          | 608                        | 0.500                          | 1.60                                   | 19.00                            | 0.161                                                       |
| 1 X 150                          | 760                        | 0.500                          | 1.80                                   | 21.00                            | 0.129                                                       |
| 1 X 185                          | 931                        | 0.500                          | 2.00                                   | 24.00                            | 0.106                                                       |
| 1 X 240                          | 1221                       | 0.500                          | 2.20                                   | 27.00                            | 0.0801                                                      |

# JOHNSON H05V-U & H07V-U CABLE

GENERALLY CONFORMS TO H05V-U & H07V-U, EN 50363-3, EN 50525-2-31, IEC 60227, IEC 60228

SINGLE CORE PVC TI I TYPE INSULATED NON SHEATHED CABLE FOR INTERNAL WIRING

## Application

H05V-U & H07V-U Cable is used for the internal wiring in lighting applications. It can also be used in electronic appliances for measuring, regulating and controlling.

## Insulation Color Code

- |          |                |
|----------|----------------|
| ● Black  | ● Red          |
| ● Blue   | ● Violet       |
| ● Brown  | ○ White        |
| ● Gray   | ● Green        |
| ● Orange | ● Green/Yellow |
| ● Pink   |                |

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Very good Insulation Resistance Property
- ◆ Special Grade Insulation PVC type TI I to EN 50363-3
- ◆ Excellent Mechanical & Electricals property
- ◆ Very good Current carrying capacity
- ◆ Very good Thermal property for Insulation
- ◆ Flame Retardant

## Packing Details

100 Meter

200 Meter

500 Meter

1000 Meter

2000 Meter

or As per Customer Requirement

## Technical Data

Voltage : 300/500V (H05V-U)

Voltage : 450/750V (H07V-U)

Test Voltage : 2000 V (H05V-U)

Test Voltage : 2500 V (H07V-U)

Short Circuit Temperature : 160°C

Flame Propagation : Flame Retardant test as per IEC 60332-1

Operating temperature range of -15°C ❄️ to +70°C 🔥

Volume Resistivity at 27°C Min. :  $1 \times 10^{13} \Omega\text{-cm}$

Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>

Elongation at Break Min. (%) : 150%

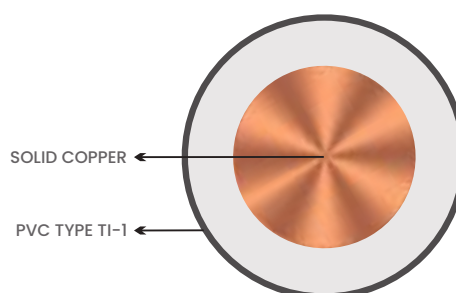
Minimum Bending Radius :  $\geq 8 \times$  Cable Dia

## Cable Construction

Conductor : Class 1 Solid bare Copper IEC 60228

Insulation : PVC type TI I to EN 50363-3

## JOHNSON H05V-U & H07V-U CABLE



### TECHNICAL CHART (SINGLE CORE) H05V-U

PVC TI 1 TYPE INSULATED & NON SHEATHED ROUND SOLID BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 0.5                          | 1                          | 0.80                           | 0.60                                   | 2.10                             | 36.00                                                       |
| 1 X 0.75                         | 1                          | 0.97                           | 0.60                                   | 2.20                             | 24.50                                                       |
| 1 X 1.0                          | 1                          | 1.13                           | 0.60                                   | 2.60                             | 18.10                                                       |

### TECHNICAL CHART (SINGLE CORE) H07V-U

PVC TI 1 TYPE INSULATED & NON SHEATHED ROUND SOLID BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 1.5                          | 1                          | 1.38                           | 0.70                                   | 3.00                             | 12.10                                                       |
| 1 X 2.5                          | 1                          | 1.78                           | 0.80                                   | 3.60                             | 7.41                                                        |
| 1 X 4                            | 1                          | 2.24                           | 0.80                                   | 4.10                             | 4.61                                                        |
| 1 X 6                            | 1                          | 2.77                           | 0.80                                   | 4.80                             | 3.08                                                        |
| 1 X 10                           | 1                          | 3.57                           | 1.00                                   | 5.80                             | 1.83                                                        |



# JOHNSON H05V2-U & H07V2-U CABLE

GENERALLY CONFORMS TO H05V2-U & H07V2-U, EN 50363-3, EN 50525-2-31, IEC 60227, IEC 60228

SINGLE CORE HEAT RESISTANCE HR PVC TI 3 TYPE INSULATED NON SHEATHED CABLE  
FOR INTERNAL WIRING

## Application

H05V2-U & H07V2-U Cable is used for the internal wiring in lighting applications. It can also be used in electronic appliances for measuring, regulating and controlling.

## Insulation Color Code

- Black
- Blue
- Brown
- Gray
- Orange
- Pink
- Red
- Violet
- White
- Green
- Green/Yellow

Or as per customer requirement.

## Cable Feature

- ♦ Design for Harmonized Acc. to European Standards
- ♦ Very good Heat Resistance Property for Insulation
- ♦ Very good Insulation Resistance Property
- ♦ Special Grade Insulation HR PVC type TI 3 to EN 50363-3
- ♦ Excellent Mechanical & Electricals property
- ♦ Very good Current carrying capacity
- ♦ Very good Thermal property for Insulation
- ♦ Flame Retardant

## Technical Data

Voltage : 300/500V (H05V2-U)  
 Voltage : 450/750V (H07V2-U)  
 Test Voltage : 2000 V (H05V2-U)  
 Test Voltage : 2500 V (H07V2-U)  
 Short Circuit Temperature : 160°C  
 Flame Propagation : Flame Retardant test as per IEC 60332-1  
 Operating temperature range of -15°C ❄️ to +90°C 🔥  
 Volume Resistivity at 27°C Min. :  $1 \times 10^{13} \Omega\text{-cm}$   
 Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>  
 Elongation at Break Min. (%) : 150%  
 Minimum Bending Radius :  $\geq 8 \times \text{Cable Dia}$

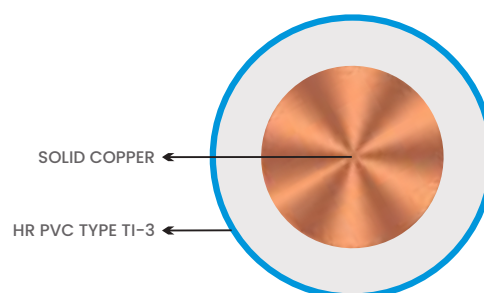
## Cable Construction

Conductor : Class 1 Solid bare Copper IEC 60228  
 Insulation : HR PVC type TI 3 to EN 50363-3

## Packing Details

100 Meter  
 200 Meter  
 500 Meter  
 1000 Meter  
 2000 Meter  
 or As per Customer Requirement

## JOHNSON H05V2-U & H07V2-U CABLE



### TECHNICAL CHART (SINGLE CORE) H05V2-U

HR PVC TI 3 TYPE INSULATED & NON SHEATHED ROUND SOLID BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 0.5                          | 1                          | 0.80                           | 0.60                                   | 2.10                             | 36.00                                                       |
| 1 X 0.75                         | 1                          | 0.97                           | 0.60                                   | 2.20                             | 24.50                                                       |
| 1 X 1.0                          | 1                          | 1.13                           | 0.60                                   | 2.60                             | 18.10                                                       |

### TECHNICAL CHART (SINGLE CORE) H07V2-U

HR PVC TI 3 TYPE INSULATED & NON SHEATHED ROUND SOLID BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C(Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|
| 1 X 1.5                          | 1                          | 1.38                           | 0.70                                   | 3.00                             | 12.10                                                       |
| 1 X 2.5                          | 1                          | 1.78                           | 0.80                                   | 3.60                             | 7.41                                                        |
| 1 X 4                            | 1                          | 2.24                           | 0.80                                   | 4.10                             | 4.61                                                        |
| 1 X 6                            | 1                          | 2.77                           | 0.80                                   | 4.80                             | 3.08                                                        |
| 1 X 10                           | 1                          | 3.57                           | 1.00                                   | 5.80                             | 1.83                                                        |

# JOHNSON H05Z-K & H07Z-K CABLE

GENERALLY CONFORMS TO H05Z-K & H07Z-K, EN 50363-5, EN 50525-3-41, IEC 60228

NON CORROSIVE NON TOXIC POLYOLEFIN CROSS LINK LSZH HEAT RESISTANT  
INSULATED NON SHEATHED WIRE.

## Application

LSZH Wiring For Appliances with maximum operating temperature of 90°C and generally in areas such as public and government building where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gases when burnt which is particularly important where electronic equipment is installed.

## Insulation Color Code

- |          |                |
|----------|----------------|
| ● Black  | ● Red          |
| ● Blue   | ● Violet       |
| ● Brown  | ○ White        |
| ● Gray   | ● Green        |
| ● Orange | ● Green/Yellow |
| ● Pink   | ● Yellow       |

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Polyolefin Cross Link LSZH type EI 5 to EN 50363-5
- ◆ Special LSZH Heat Resistance Thermosetting Insulation
- ◆ Very good Insulation Resistance property
- ◆ High current carrying capacity
- ◆ LSZH and ozone Resistance Insulation Material
- ◆ Very good fire retardant property
- ◆ Non Corrosive Non Toxic LSZH Heat Resistant Insulation
- ◆ Long Flex Life
- ◆ Excellent Mechanical & Electrical Property
- ◆ Excellent Resistance to Moisture, Abrasion, Grace, Oil
- ◆ Flame Retardant

## Technical Data

- Voltage : 300/500V (H05Z-K)
- Voltage : 450/750V (H07Z-K)
- Test Voltage : 2000 V (H05Z-K)
- Test Voltage : 2500 V (H07Z-K)
- Short Circuit Temperature : 200°C
- Flame Propagation : Flame Retardant test as per IEC 60332-1-2
- UV resistance
- Low Smoke Zero Halogen Free
- Smoke density to acc. to EN 61034-2
- Halogen free acc. to EN 60754-1
- Ozone resistance acc. to EN 60811-2-1
- Hot set test: As per table 2, Ref no. 2 EN 50363-5
- Operating temperature range of -20°C ❄️ to +90°C 🔥
- Volume Resistivity at 20°C Min. :  $1 \times 10^{14} \Omega\text{-cm}$
- Tensile Strength Min. (N/mm<sup>2</sup>) : 10.00 N/mm<sup>2</sup>
- Elongation at Break Min. (%) : 125%
- Minimum Bending Radius :  $\geq 6 \times \text{Cable Dia}$

## Cable Construction

- Conductor : Class 5 Flexible plain/Tin coated multi Strands Copper IEC 60228
- Insulation : Polyolefin Cross Link LSZH type EI 5 to EN 50363-5

## Packing Details

- 100 Meter
- 200 Meter
- 500 Meter
- 1000 Meter
- 2000 Meter
- or As per Customer Requirement

## JOHNSON H05Z-K & H07Z-K CABLE



### TECHNICAL CHART (SINGLE CORE) H05Z-K

POLYOLEFIN CROSS LINK LSZH EI5 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE PLAIN/TIN MULTI STRANDS COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) PLAIN COPPER | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) TIN COPPER |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1 X 0.5                          | 16                         | 0.200                          | 0.60                                   | 2.10                             | 39.00                                                                     | 40.10                                                                   |
| 1 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 2.30                             | 26.00                                                                     | 26.70                                                                   |
| 1 X 1.0                          | 32                         | 0.200                          | 0.60                                   | 2.70                             | 19.50                                                                     | 20.00                                                                   |

### TECHNICAL CHART (SINGLE CORE) H07Z-K

POLYOLEFIN CROSS LINK LSZH EI5 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE PLAIN/TIN MULTI STRANDS COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) PLAIN COPPER | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) TIN COPPER |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 3.00                             | 13.30                                                                     | 13.70                                                                   |
| 1 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 3.60                             | 7.98                                                                      | 8.21                                                                    |
| 1 X 4                            | 56                         | 0.300                          | 0.80                                   | 4.10                             | 4.95                                                                      | 5.09                                                                    |
| 1 X 6                            | 84                         | 0.300                          | 0.80                                   | 5.10                             | 3.30                                                                      | 3.39                                                                    |
| 1 X 10                           | 140                        | 0.300                          | 1.00                                   | 6.20                             | 1.91                                                                      | 1.95                                                                    |
| 1 X 16                           | 224                        | 0.300                          | 1.00                                   | 7.80                             | 1.21                                                                      | 1.24                                                                    |
| 1 X 25                           | 350                        | 0.300                          | 1.20                                   | 9.80                             | 0.780                                                                     | 0.795                                                                   |
| 1 X 35                           | 490                        | 0.300                          | 1.20                                   | 10.80                            | 0.554                                                                     | 0.565                                                                   |
| 1 X 50                           | 703                        | 0.300                          | 1.40                                   | 12.80                            | 0.386                                                                     | 0.393                                                                   |
| 1 X 70                           | 988                        | 0.300                          | 1.40                                   | 15.00                            | 0.272                                                                     | 0.277                                                                   |
| 1 X 95                           | 1349                       | 0.300                          | 1.60                                   | 17.50                            | 0.206                                                                     | 0.210                                                                   |
| 1 X 120                          | 608                        | 0.500                          | 1.60                                   | 19.00                            | 0.161                                                                     | 0.164                                                                   |
| 1 X 150                          | 760                        | 0.500                          | 1.80                                   | 21.00                            | 0.129                                                                     | 0.132                                                                   |
| 1 X 185                          | 931                        | 0.500                          | 2.00                                   | 24.00                            | 0.106                                                                     | 0.108                                                                   |
| 1 X 240                          | 1221                       | 0.500                          | 2.20                                   | 27.00                            | 0.0801                                                                    | 0.0817                                                                  |

# JOHNSON H05Z1-K & H07Z1-K CABLE

GENERALLY CONFORMS TO H05Z1-K & H07Z1-K, EN 50363-7, EN 50525-3-31, IEC 60228

NON CORROSIVE NON TOXIC THERMOPLASTIC LSZH HEAT RESISTANT  
INSULATED NON SHEATHED WIRE.

## Application

LSZH Wiring For Appliances with maximum operating temperature of 70°C and generally in areas such as public and government building where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gases when burnt which is particularly important where electronic equipment is installed.

## Insulation Color Code

- |          |                |
|----------|----------------|
| ● Black  | ● Red          |
| ● Blue   | ● Violet       |
| ● Brown  | ○ White        |
| ● Gray   | ● Green        |
| ● Orange | ● Green/Yellow |
| ● Pink   | ● Yellow       |

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Thermoplastic LSZH type TI 7 to EN 50363-7
- ◆ Special LSZH Heat Resistance Thermoplastic Insulation
- ◆ Very good Insulation Resistance property
- ◆ High current carrying capacity
- ◆ LSZH and ozone Resistance Insulation Material
- ◆ Very good fire retardant property
- ◆ Non Corrosive Non Toxic LSZH Heat Resistant Insulation
- ◆ Long Flex Life
- ◆ Excellent Mechanical & Electrical Property
- ◆ Excellent Resistance to Moisture, Abrasion, Grace, Oil
- ◆ Flame Retardant

## Technical Data

- Voltage : 300/500V (H05Z1-K)
- Voltage : 450/750V (H07Z1-K)
- Test Voltage : 2000 V (H05Z1-K)
- Test Voltage : 2500 V (H07Z1-K)
- Short Circuit Temperature : 200°C
- Flame Propagation : Flame Retardant test as per IEC 60332-1-2
- UV resistance
- Low Smoke Zero Halogen Free
- Smoke density to acc. to EN 61034-2
- Halogen free acc. to EN 60754-1
- Ozone resistance acc. to EN 60811-2-1
- Hot set test: As per table 2, Ref no. 2 EN 50363-5
- Operating temperature range of -15°C ❄️ to +70°C 🔥
- Volume Resistivity at 20°C Min. :  $1 \times 10^{14} \Omega \cdot \text{cm}$
- Tensile Strength Min. (N/mm<sup>2</sup>) : 7.50 N/mm<sup>2</sup>
- Elongation at Break Min. (%) : 125%
- Minimum Bending Radius :  $\geq 6 \times \text{Cable Dia}$

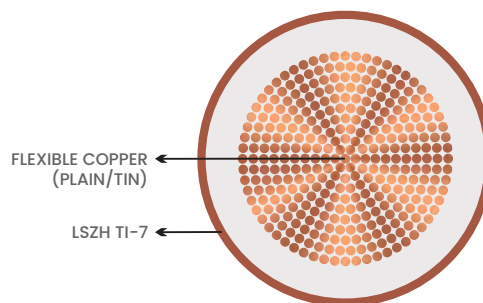
## Cable Construction

- Conductor : Class 5 Flexible plain/Tin coated multi Strands Copper IEC 60228
- Insulation : Thermoplastic LSZH type TI 7 to EN 50363-7

## Packing Details

- 100 Meter
- 200 Meter
- 500 Meter
- 1000 Meter
- 2000 Meter
- or As per Customer Requirement

# JOHNSON H05Z1-K & H07Z1-K CABLE



## TECHNICAL CHART (SINGLE CORE) H05Z-K

THERMOPLASTIC LSZH TI7 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE PLAIN/TIN MULTI STRANDS COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) PLAIN COPPER | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) TIN COPPER |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1 X 0.5                          | 16                         | 0.200                          | 0.60                                   | 2.10                             | 39.00                                                                     | 40.10                                                                   |
| 1 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 2.30                             | 26.00                                                                     | 26.70                                                                   |
| 1 X 1.0                          | 32                         | 0.200                          | 0.60                                   | 2.70                             | 19.50                                                                     | 20.00                                                                   |

## TECHNICAL CHART (SINGLE CORE) H07Z-K

THERMOPLASTIC LSZH TI7 TYPE INSULATED & NON SHEATHED ROUND FLEXIBLE PLAIN/TIN MULTI STRANDS COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) PLAIN COPPER | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT 20°C<br>(OHM/KM) TIN COPPER |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 3.00                             | 13.30                                                                     | 13.70                                                                   |
| 1 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 3.60                             | 7.98                                                                      | 8.21                                                                    |
| 1 X 4                            | 56                         | 0.300                          | 0.80                                   | 4.10                             | 4.95                                                                      | 5.09                                                                    |
| 1 X 6                            | 84                         | 0.300                          | 0.80                                   | 5.10                             | 3.30                                                                      | 3.39                                                                    |
| 1 X 10                           | 140                        | 0.300                          | 1.00                                   | 6.20                             | 1.91                                                                      | 1.95                                                                    |
| 1 X 16                           | 224                        | 0.300                          | 1.00                                   | 7.80                             | 1.21                                                                      | 1.24                                                                    |
| 1 X 25                           | 350                        | 0.300                          | 1.20                                   | 9.80                             | 0.780                                                                     | 0.795                                                                   |
| 1 X 35                           | 490                        | 0.300                          | 1.20                                   | 10.80                            | 0.554                                                                     | 0.565                                                                   |
| 1 X 50                           | 703                        | 0.300                          | 1.40                                   | 12.80                            | 0.386                                                                     | 0.393                                                                   |
| 1 X 70                           | 988                        | 0.300                          | 1.40                                   | 15.00                            | 0.272                                                                     | 0.277                                                                   |
| 1 X 95                           | 1349                       | 0.300                          | 1.60                                   | 17.50                            | 0.206                                                                     | 0.210                                                                   |
| 1 X 120                          | 608                        | 0.500                          | 1.60                                   | 19.00                            | 0.161                                                                     | 0.164                                                                   |
| 1 X 150                          | 760                        | 0.500                          | 1.80                                   | 21.00                            | 0.129                                                                     | 0.132                                                                   |
| 1 X 185                          | 931                        | 0.500                          | 2.00                                   | 24.00                            | 0.106                                                                     | 0.108                                                                   |
| 1 X 240                          | 1221                       | 0.500                          | 2.20                                   | 27.00                            | 0.0801                                                                    | 0.0817                                                                  |

# JOHNSON H05V-R & H07V-R CABLE

GENERALLY CONFORMS TO H05V-R & H07V-R, EN 50363-3, EN 50525-2-31, IEC 60227, IEC 60228

SINGLE CORE PVC TYPE TI 1 INSULATED NON SHEATHED CABLE FOR INTERNAL WIRING

## Application

H05V-R & H07V-R Cable is used for the installed in a fixed installation mechanically protected, inside a distribution and control device.

## Insulation Color Code

- |          |                |
|----------|----------------|
| ● Black  | ● Red          |
| ● Blue   | ● Violet       |
| ● Brown  | ○ White        |
| ● Gray   | ● Green        |
| ● Orange | ● Green/Yellow |
| ● Pink   | ● Yellow       |

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Very good Heat Resistance Property for Insulation
- ◆ Special Grade Insulation PVC type TI 1 to EN 50363-3
- ◆ Very good Insulation Resistance Property
- ◆ Excellent Mechanical & Electricals property
- ◆ Very good Current carrying capacity
- ◆ Very good Thermal property for Insulation
- ◆ Flame Retardant

## Technical Data

Voltage: 300/500V (H05V-R)  
 Voltage: 450/750V (H07V-R)  
 Test Voltage: 2000 V (H05V-R)  
 Test Voltage: 2500 V (H07V-R)  
 Short Circuit Temperature: 160°C  
 Flame Propagation: Flame Retardant test as per IEC 60332-1  
 Operating temperature range of -15°C ❄️ to +70°C 🔥  
 Volume Resistivity at 27°C Min. :  $1 \times 10^{13} \Omega\text{-cm}$   
 Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>  
 Elongation at Break Min. (%) : 150%  
 Minimum Bending Radius :  $\geq 6 \times \text{Cable Dia}$

## Cable Construction

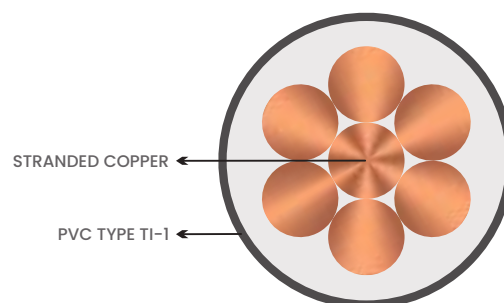
Conductor : Class 2 Stranded Plain Copper IEC 60228  
 Insulation : Special PVC type TI 1 to EN 50363-3

## Packing Details

100 Meter  
 200 Meter  
 500 Meter  
 1000 Meter  
 2000 Meter  
 or As per Customer Requirement



## JOHNSON H05V-R & H07V-R CABLE



### TECHNICAL CHART (SINGLE CORE) H05V-R

PVC TI 1 TYPE INSULATED & NON SHEATHED ROUND STRANDED BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|--------------------------------------------------------------|
| 1 X 0.5                          | 7                          | 0.300                          | 0.60                                   | 2.10                             | 36.00                                                        |
| 1 X 0.75                         | 7                          | 0.370                          | 0.60                                   | 2.30                             | 24.00                                                        |
| 1 X 1.0                          | 7                          | 0.430                          | 0.60                                   | 2.70                             | 18.10                                                        |

### TECHNICAL CHART (SINGLE CORE) H07V-R

PVC TI 1 TYPE INSULATED & NON SHEATHED ROUND STRANDED BARE COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|--------------------------------------------------------------|
| 1 X 1.5                          | 7                          | 0.52                           | 0.70                                   | 3.00                             | 12.10                                                        |
| 1 X 2.5                          | 7                          | 0.67                           | 0.80                                   | 3.60                             | 7.41                                                         |
| 1X 4                             | 7                          | 0.85                           | 0.80                                   | 4.10                             | 4.61                                                         |
| 1X 6                             | 7                          | 1.04                           | 0.80                                   | 5.10                             | 3.08                                                         |
| 1 X 10                           | 7                          | 1.35                           | 1.00                                   | 6.20                             | 1.83                                                         |
| 1 X 16                           | 7                          | 1.71                           | 1.00                                   | 7.40                             | 1.15                                                         |
| 1 X 25                           | 7                          | 2.13                           | 1.20                                   | 9.00                             | 0.727                                                        |
| 1 X 35                           | 7                          | 2.52                           | 1.20                                   | 10.20                            | 0.524                                                        |
| 1 X 50                           | 19                         | 1.83                           | 1.40                                   | 12.20                            | 0.387                                                        |
| 1 X 70                           | 19                         | 2.16                           | 1.40                                   | 14.00                            | 0.268                                                        |
| 1 X 95                           | 19                         | 2.52                           | 1.60                                   | 17.00                            | 0.193                                                        |
| 1 X 120                          | 37                         | 2.03                           | 1.60                                   | 18.00                            | 0.153                                                        |
| 1 X 150                          | 37                         | 2.27                           | 1.80                                   | 20.00                            | 0.124                                                        |
| 1 X 185                          | 37                         | 2.52                           | 2.00                                   | 22.00                            | 0.0991                                                       |
| 1 X 240                          | 61                         | 2.24                           | 2.20                                   | 26.00                            | 0.0754                                                       |
| 1 X 300                          | 61                         | 2.50                           | 2.40                                   | 29.00                            | 0.0601                                                       |
| 1 X 400                          | 61                         | 2.89                           | 2.60                                   | 33.00                            | 0.0470                                                       |

# JOHNSON H05V2-R & H07V2-R CABLE

GENERALLY CONFORMS TO H05V2-R & H07V2-R, EN 50363-3, EN 50525-2-31, IEC 60227, IEC 60228

SINGLE CORE HEAT RESISTANCE PVC TYPE TI 3 INSULATED NON SHEATHED CABLE FOR INTERNAL WIRING

## Application

H05V2-R & H07V2-R Cable is used for the installed in a fixed installation mechanically protected, inside a distribution and control device.

## Insulation Color Code

- |          |                |
|----------|----------------|
| ● Black  | ● Red          |
| ● Blue   | ● Violet       |
| ● Brown  | ○ White        |
| ● Gray   | ● Green        |
| ● Orange | ● Green/Yellow |
| ● Pink   | ● Yellow       |

Or as per customer requirement.

## Cable Feature

- ◆ Design for Harmonized Acc. to European Standards
- ◆ Very good Heat Resistance Property for Insulation
- ◆ Special Grade Insulation PVC type TI 3 to EN 50363-3
- ◆ Very good Insulation Resistance Property
- ◆ Excellent Mechanical & Electricals property
- ◆ Very good Current carrying capacity
- ◆ Very good Thermal property for Insulation

## Technical Data

Voltage: 300/500V (H05V2-R)  
 Voltage: 450/750V (H07V2-R)  
 Test Voltage: 2000 V (H05V2-R)  
 Test Voltage: 2500 V (H07V2-R)  
 Short Circuit Temperature: 160°C  
 Flame Propagation: Flame Retardant test as per IEC 60332-1  
 Operating Temperature Range of -20°C ❄️ to +90°C 🔥  
 Volume Resistivity at 27°C Min. :  $1 \times 10^{13} \Omega\text{-cm}$   
 Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>  
 Elongation at Break Min. (%) : 150%  
 Minimum Bending Radius :  $\geq 6 \times \text{Cable Dia}$

## Cable Construction

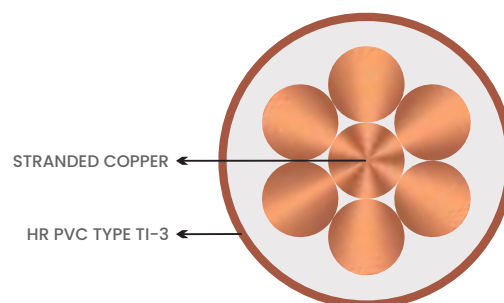
Conductor : Class 2 Stranded Plain Copper IEC 60228

Insulation : HR PVC type TI 3 to EN 50363-3

## Packing Details

100 Meter  
 200 Meter  
 500 Meter  
 1000 Meter  
 2000 Meter  
 or As per Customer Requirement

## JOHNSON H05V2-R & H07V2-R CABLE



### TECHNICAL CHART (SINGLE CORE) H05V2-R

HR PVC TI 3 TYPE INSULATED & NON SHEATHED ROUND STRANDED PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|--------------------------------------------------------------|
| 1 X 0.5                          | 7                          | 0.300                          | 0.60                                   | 2.10                             | 36.00                                                        |
| 1 X 0.75                         | 7                          | 0.370                          | 0.60                                   | 2.30                             | 24.00                                                        |
| 1 X 1.0                          | 7                          | 0.430                          | 0.60                                   | 2.70                             | 18.10                                                        |

### TECHNICAL CHART (SINGLE CORE) H07V2-R

HR PVC TI 3 TYPE INSULATED & NON SHEATHED ROUND STRANDED PLAIN COPPER CABLES

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | CORE DIA<br>IN (MM)<br>APPROX OD | MAX. DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|----------------------------------|--------------------------------------------------------------|
| 1 X 1.5                          | 7                          | 0.52                           | 0.70                                   | 3.00                             | 12.10                                                        |
| 1 X 2.5                          | 7                          | 0.67                           | 0.80                                   | 3.60                             | 7.41                                                         |
| 1X 4                             | 7                          | 0.85                           | 0.80                                   | 4.10                             | 4.61                                                         |
| 1X 6                             | 7                          | 1.04                           | 0.80                                   | 5.10                             | 3.08                                                         |
| 1 X 10                           | 7                          | 1.35                           | 1.00                                   | 6.20                             | 1.83                                                         |
| 1 X 16                           | 7                          | 1.71                           | 1.00                                   | 7.40                             | 1.15                                                         |
| 1 X 25                           | 7                          | 2.13                           | 1.20                                   | 9.00                             | 0.727                                                        |
| 1 X 35                           | 7                          | 2.52                           | 1.20                                   | 10.20                            | 0.524                                                        |
| 1 X 50                           | 19                         | 1.83                           | 1.40                                   | 12.20                            | 0.387                                                        |
| 1 X 70                           | 19                         | 2.16                           | 1.40                                   | 14.00                            | 0.268                                                        |
| 1 X 95                           | 19                         | 2.52                           | 1.60                                   | 17.00                            | 0.193                                                        |
| 1 X 120                          | 37                         | 2.03                           | 1.60                                   | 18.00                            | 0.153                                                        |
| 1 X 150                          | 37                         | 2.27                           | 1.80                                   | 20.00                            | 0.124                                                        |
| 1 X 185                          | 37                         | 2.52                           | 2.00                                   | 22.00                            | 0.0991                                                       |
| 1 X 240                          | 61                         | 2.24                           | 2.20                                   | 26.00                            | 0.0754                                                       |
| 1 X 300                          | 61                         | 2.50                           | 2.40                                   | 29.00                            | 0.0601                                                       |
| 1 X 400                          | 61                         | 2.89                           | 2.60                                   | 33.00                            | 0.0470                                                       |

# JOHNSON H05VV-F CABLE

GENERALLY CONFORMS TO H05VV-F EN 50525-2-11, IEC 60227, IEC 60228

MULTI CORE PVC INSULATED & PVC SHEATHED FLEXIBLE CORDS

## Application

PVC cable for use in domestic appliances, kitchens and offices.  
For use with light portable appliances, such as office equipment applications.

## Insulation Color Code

2 Core :  Blue  Brown

3 Core :  Yellow/Green Strip  Blue  Brown

4 Core :  Yellow/Green Strip  Brown  Black  
 Gray

5 Core :  Yellow/Green Strip  Blue  Brown  
 Black  Gray

Or as per customer requirement.

## Sheath Color Code

2 Core :  White /  Blue /  Gray

3 Core :  White /  Blue /  Gray

4 Core :  White /  Blue /  Gray

5 Core :  White /  Blue /  Gray

Or as per customer requirement.

## Packing Details

100 Meter

200 Meter

500 Meter

1000 Meter

2000 Meter

or As per Customer Requirement.

## Technical Data

Voltage: 300/500V

Test Voltage: 2000 V

Flame Propagation: Flame Retardant test as per IEC 60332-1

Operating temperature range of -15°C ❄️ to +70°C 🔥 (H05VV-F)

Volume Resistivity at 27°C Min. :  $1 \times 10^{13} \Omega\text{-cm}$

Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>

Elongation at Break Min. (%) : 150%

Minimum Bending Radius :  $\geq 8 \times \text{Cable Dia}$

## Cable Construction

Conductor : Class 5 Flexible bare Copper IEC 60228

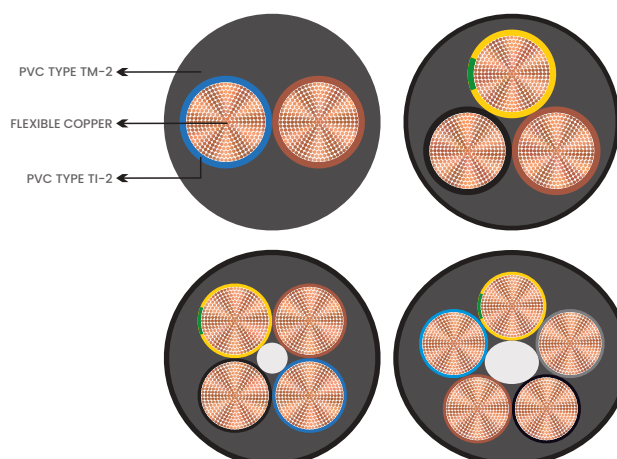
Insulation : PVC type TI 2 to EN 50363-3 (H05VV-F)

Sheath : PVC type TM 2 to EN 50363-4-1 (H05VV-F)

## Cable Feature

- ♦ Design for Harmonized Acc. to European Standards
- ♦ Very good Heat Resistance Property for Insulation
- ♦ Special Grade Insulation PVC type TI 2 to EN 50363-3
- ♦ Special Grade Sheath PVC type TM 3 to EN 50363-4-1
- ♦ Very good Insulation Resistance Property
- ♦ Excellent Resistance to Moisture, Abrasion, Grace, Oil
- ♦ Excellent Mechanical & Electricals property
- ♦ Very good Current carrying capacity
- ♦ Very good Thermal property for Insulation

# JOHNSON H05VV-F CABLE



## TECHNICAL CHART (MULTI CORE) H05VV-F

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | (NOM.) SHEATH<br>THICKNESS (MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAXIMUM DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|---------------------------------|------------------------------------------|-----------------------------------------------------------------|
| 2 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 2 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.80                            | 6.30                                     | 26.00                                                           |
| 2 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.80                            | 7.20                                     | 19.50                                                           |
| 2 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 0.80                            | 7.80                                     | 13.30                                                           |
| 2 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.00                            | 9.40                                     | 7.98                                                            |
| 2 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.10                            | 10.60                                    | 4.95                                                            |
| 3 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 3 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.80                            | 6.70                                     | 26.00                                                           |
| 3 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.80                            | 7.60                                     | 19.50                                                           |
| 3 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 0.90                            | 8.40                                     | 13.30                                                           |
| 3 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.00                            | 9.90                                     | 7.98                                                            |
| 3 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.20                            | 11.40                                    | 4.95                                                            |
| 4 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 4 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.80                            | 7.30                                     | 26.00                                                           |
| 4 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.90                            | 8.50                                     | 19.50                                                           |
| 4 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 1.00                            | 9.40                                     | 13.30                                                           |
| 4 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.10                            | 11.10                                    | 7.98                                                            |
| 4 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.20                            | 12.50                                    | 4.95                                                            |
| 5 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 5 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.90                            | 8.20                                     | 26.00                                                           |
| 5 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.90                            | 9.30                                     | 19.50                                                           |
| 5 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 1.10                            | 10.50                                    | 13.30                                                           |
| 5 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.20                            | 12.40                                    | 7.98                                                            |
| 5 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.40                            | 14.20                                    | 4.95                                                            |

# JOHNSON H05V2V2-F CABLE

GENERALLY CONFORMS TO H05V2V2-F EN 50525-2-11, IEC 60227, IEC 60228

MULTI CORE HEAT RESISTANCE PVC INSULATED & PVC SHEATHED  
FLEXIBLE CORDS

## Application

PVC cable for use in domestic appliances, kitchens and offices.  
For use with light portable appliances, such as office equipment.  
applications.

## Insulation Color Code

2 Core :  Blue  Brown

3 Core :  Yellow/Green Strip  Blue  Brown

4 Core :  Yellow/Green Strip  Brown  Black  
 Gray

5 Core :  Yellow/Green Strip  Blue  Brown  
 Black  Gray

Or as per customer requirement.

## Sheath Color Code

2 Core :  White /  Blue /  Gray

3 Core :  White /  Blue /  Gray

4 Core :  White /  Blue /  Gray

5 Core :  White /  Blue /  Gray

Or as per customer requirement.

## Packing Details

100 Meter

200 Meter

500 Meter

1000 Meter

2000 Meter

or As per Customer Requirement.

## Technical Data

Voltage: 300/500V

Test Voltage: 2000 V

Flame Propagation: Flame Retardant test as per IEC 60332-1

Operating temperature range of -15°C ❄️ to +90°C 🔥 (H05V2V2-F)

Volume Resistivity at 27°C Min. :  $1 \times 10^{13} \Omega\text{-cm}$

Tensile Strength Min. (N/mm<sup>2</sup>) : 12.50 N/mm<sup>2</sup>

Elongation at Break Min. (%) : 150%

Minimum Bending Radius :  $\geq 8 \times \text{Cable Dia}$

## Cable Construction

Conductor : Class 5 Flexible bare Copper IEC 60228

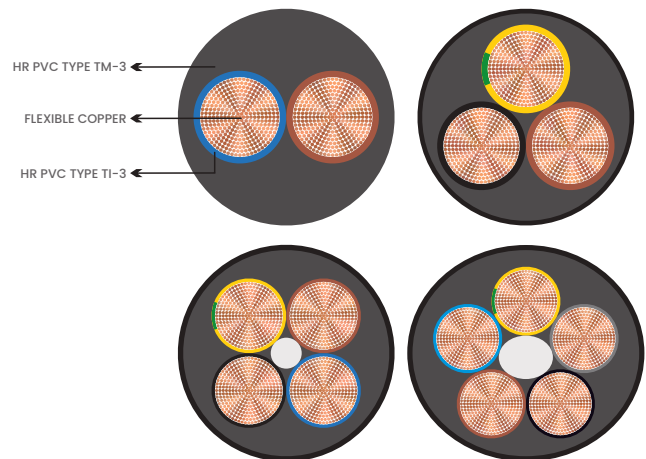
Insulation : HR PVC type TI 3 to EN 50363-3  
(H05V2V2-F)

Sheath : HR PVC type TM 3 to EN 50363-4-1  
(H05V2V2-F)

## Cable Feature

- ♦ Design for Harmonized Acc. to European Standards
- ♦ Very good Heat Resistance Property for Insulation
- ♦ Special Grade Insulation HR PVC type TI 3 to EN 50363-3
- ♦ Special Grade Sheath HR PVC type TM 3 to EN 50363-4-1
- ♦ Very good Insulation Resistance Property
- ♦ Excellent Resistance to Moisture, Abrasion, Grace, Oil
- ♦ Excellent Mechanical & Electricals property
- ♦ Very good Current carrying capacity
- ♦ Very good Thermal property for Insulation

# JOHNSON H05V2V2-F CABLE



## TECHNICAL CHART (MULTI CORE) H05V2V2-F

| SIZE<br>(NO. OF CORE<br>X SQ.MM) | TOTAL<br>NO. OF<br>STRANDS | MAXIMUM<br>DIA IN MM<br>(NOM.) | (NOM.)<br>INSULATION<br>THICKNESS (MM) | (NOM.) SHEATH<br>THICKNESS (MM) | OUTER SHEATH<br>DIA IN (MM)<br>APPROX OD | MAXIMUM DC CONDUCTOR<br>RESISTANCE OF CABLE AT<br>20°C (Ohm/km) |
|----------------------------------|----------------------------|--------------------------------|----------------------------------------|---------------------------------|------------------------------------------|-----------------------------------------------------------------|
| 2 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 2 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.80                            | 6.30                                     | 26.00                                                           |
| 2 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.80                            | 7.20                                     | 19.50                                                           |
| 2 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 0.80                            | 7.80                                     | 13.30                                                           |
| 2 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.00                            | 9.40                                     | 7.98                                                            |
| 2 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.10                            | 10.60                                    | 4.95                                                            |
| 3 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 3 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.80                            | 6.70                                     | 26.00                                                           |
| 3 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.80                            | 7.60                                     | 19.50                                                           |
| 3 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 0.90                            | 8.40                                     | 13.30                                                           |
| 3 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.00                            | 9.90                                     | 7.98                                                            |
| 3 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.20                            | 11.40                                    | 4.95                                                            |
| 4 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 4 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.80                            | 7.30                                     | 26.00                                                           |
| 4 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.90                            | 8.50                                     | 19.50                                                           |
| 4 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 1.00                            | 9.40                                     | 13.30                                                           |
| 4 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.10                            | 11.10                                    | 7.98                                                            |
| 4 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.20                            | 12.50                                    | 4.95                                                            |
| 5 CORE                           |                            |                                |                                        |                                 |                                          |                                                                 |
| 5 X 0.75                         | 24                         | 0.200                          | 0.60                                   | 0.90                            | 8.20                                     | 26.00                                                           |
| 5 X 1                            | 32                         | 0.200                          | 0.60                                   | 0.90                            | 9.30                                     | 19.50                                                           |
| 5 X 1.5                          | 30                         | 0.250                          | 0.70                                   | 1.10                            | 10.50                                    | 13.30                                                           |
| 5 X 2.5                          | 50                         | 0.250                          | 0.80                                   | 1.20                            | 12.40                                    | 7.98                                                            |
| 5 X 4                            | 56                         | 0.300                          | 0.80                                   | 1.40                            | 14.20                                    | 4.95                                                            |





## **JOHNSON CAB ELECTRICALS LIMITED (INDIA)**

**AN ISO 9001:2015 CERTIFIED COMPANY**

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