



Conductors without external sheath, PVC insulation, for general use

## STANDARDS

**Product** EN 50525-2-31; HD 21.3; IEC 60227-1; IEC 60228; NF C32-201/3

## APPLICATION

Nexans H07V-R are insulated stranded copper conductors, used for fixed protected installations indoors for power supply or lightings (from offices, domestic or commercial buildings...) with voltage up to 1000V AC or 750V DC.

### Design

1. **Conductor**  
Bare copper class 2
2. **Insulation**  
PVC  
Différent colors.

## INSTALLATION

In conduit, insulated support, ducts... in covered and dry place.

**Permissible current** are given for conductor laid alone in insulating tube on a wall temperature at 30°C .

If conditions are different, apply correction factors in accordance with NF C 15-100 standard or other equivalent national standard.

### Voltage drop

Calculated with  $\cos \phi = 0,8$

## MARKING

S.Y + USE «har» H07V-R factory number.



## CONTACT

Building Products Information  
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Conductor flexibility  
**Stranded class 2**



Lead free  
**Yes**



Rated Voltage  $U_0/U$   
(Um)  
**450/750 V**



Mechanical  
resistance to  
impacts  
**Low**



Max. conductor  
temp. in service  
**70 °C**



Operating temp.  
**-5 ... 60 °C**



Flame retardant  
**C2, NF C 32-070 &  
EN 50265-2-1**



Weather resistance  
**No**

## CHARACTERISTICS

### Construction characteristics

|                       |                  |
|-----------------------|------------------|
| Conductor material    | Copper class 2   |
| Conductor flexibility | Stranded class 2 |
| Conductor shape       | Circular         |
| Insulation            | PVC              |
| Lead free             | Yes              |

### Dimensional characteristics

|                 |   |
|-----------------|---|
| Number of cores | 1 |
|-----------------|---|

### Electrical characteristics

|                                                   |           |
|---------------------------------------------------|-----------|
| Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> ) | 450/750 V |
|---------------------------------------------------|-----------|

### Mechanical characteristics

|                                  |     |
|----------------------------------|-----|
| Mechanical resistance to impacts | Low |
|----------------------------------|-----|

### Usage characteristics

|                                          |                                |
|------------------------------------------|--------------------------------|
| Max. conductor temperature in service    | 70 °C                          |
| Short-circuit max. conductor temperature | 160 °C                         |
| Operating temperature, range             | -5 ... 60 °C                   |
| Flame retardant                          | C2, NF C 32-070 & EN 50265-2-1 |
| Weather resistance                       | No                             |
| Chemical resistance                      | Accidental                     |
| Water proof                              | Low                            |

## PRODUCT LIST WITH BLACK SHEATH

| Nexans Ref. | Cross section [mm²] | Approx. weight [kg/km] | Conductor diam. [mm] | Nom. outer diam. [mm] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, 3 conductors [V/A.km] | Voltage drop, single phase [V/A.km] | Packaging |
|-------------|---------------------|------------------------|----------------------|-----------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------|-----------|
| 10026608    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10026623    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10241743    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Box       |
| 10026400    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10026610    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10028634    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10058781    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10097303    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10130804    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10268906    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10026839    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10097430    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10164439    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10186332    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10227182    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10236214    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |

| Nexans Ref. | Cross section [mm²] | Approx. weight [kg/km] | Conductor diam. [mm] | Nom. outer diam. [mm] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, 3 conductors [V/A.km] | Voltage drop, single phase [V/A.km] | Packaging |
|-------------|---------------------|------------------------|----------------------|-----------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------|-----------|
| 10262698    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10276232    | 6                   | -                      | -                    | 4.5                   | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10269952    | 6                   | 65                     | 2.9                  | 4.5                   | 41.0                                | 36.0                                          | 5.0                                 | 6.0                                 | Coil      |
| 10283110    | 6                   | 65                     | 2.9                  | 4.5                   | 41.0                                | 36.0                                          | 5.0                                 | 6.0                                 | Drum      |
| 10097433    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10262692    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10269367    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10043667    | 10                  | 125                    | 3.8                  | 5.8                   | 57.0                                | 50.0                                          | 3.0                                 | 3.5                                 | Coil      |
| 10059516    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10097437    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10262695    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10043673    | 16                  | 160                    | 4.7                  | 6.8                   | 76.0                                | 68.0                                          | 2.0                                 | 2.4                                 | Coil      |
| 10059816    | 16                  | 160                    | 4.7                  | 6.8                   | 76.0                                | 68.0                                          | 2.0                                 | 2.4                                 | Drum      |
| 10067635    | 25                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10244098    | 35                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |

## PRODUCT LIST WITH GREEN/YELLOW SHEATH

| Nexans Ref. | Cross section [mm²] | Approx. weight [kg/km] | Conductor diam. [mm] | Nom. outer diam. [mm] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, 3 conductors [V/A.km] | Voltage drop, single phase [V/A.km] | Packaging |
|-------------|---------------------|------------------------|----------------------|-----------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------|-----------|
| 10026612    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10026626    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10241784    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Box       |
| 10026398    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10026614    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10028635    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10058782    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10097300    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10130803    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10268908    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10026838    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10097432    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10164440    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10213485    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10227183    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10236215    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10262699    | 6                   | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10276233    | 6                   | -                      | -                    | 4.5                   | -                                   | -                                             | -                                   | -                                   | Coil      |

| Nexans Ref. | Cross section [mm²] | Approx. weight [kg/km] | Conductor diam. [mm] | Nom. outer diam. [mm] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, 3 conductors [V/A.km] | Voltage drop, single phase [V/A.km] | Packaging |
|-------------|---------------------|------------------------|----------------------|-----------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------|-----------|
| 10269950    | 6                   | 65                     | 2.9                  | 4.5                   | 41.0                                | 36.0                                          | 5.0                                 | 6.0                                 | Coil      |
| 10283111    | 6                   | 65                     | 2.9                  | 4.5                   | 41.0                                | 36.0                                          | 5.0                                 | 6.0                                 | Drum      |
| 10274837    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10268914    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10268916    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10286994    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10033796    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10097435    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10262693    | 10                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10274838    | 10                  | 6                      | 3.8                  | 3.9                   | -                                   | -                                             | 8.0                                 | 9.0                                 | -         |
| 10043664    | 10                  | 125                    | 3.8                  | 5.8                   | 57.0                                | 50.0                                          | 3.0                                 | 3.5                                 | Coil      |
| 10274839    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10274840    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | -         |
| 10268915    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10268917    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10286995    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10050912    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10097438    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10262696    | 16                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10266116    | 16                  | -                      | -                    | 3.9                   | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10266118    | 16                  | -                      | -                    | 3.9                   | -                                   | -                                             | -                                   | -                                   | Coil      |
| 10043670    | 16                  | 160                    | 4.7                  | 6.8                   | 76.0                                | 68.0                                          | 2.0                                 | 2.4                                 | Coil      |
| 10059814    | 16                  | 160                    | 4.7                  | 6.8                   | 76.0                                | 68.0                                          | 2.0                                 | 2.4                                 | Drum      |
| 10026656    | 25                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |
| 10244097    | 35                  | -                      | -                    | -                     | -                                   | -                                             | -                                   | -                                   | Drum      |

## PRODUCT LIST WITH BLUE SHEATH

| Nexans Ref. | Cross section [mm²] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, single phase [V/A.km] | Nom. outer diam. [mm] | Conductor diam. [mm] | Voltage drop, 3 conductors [V/A.km] | Approx. weight [kg/km] | Packaging |
|-------------|---------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-----------------------|----------------------|-------------------------------------|------------------------|-----------|
| 10026602    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | -         |
| 10026620    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | -         |
| 10241742    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Box       |
| 10026397    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10026604    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10028633    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10058779    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10097302    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |

| Nexans Ref. | Cross section [mm²] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, single phase [V/A.km] | Nom. outer diam. [mm] | Conductor diam. [mm] | Voltage drop, 3 conductors [V/A.km] | Approx. weight [kg/km] | Packaging |
|-------------|---------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-----------------------|----------------------|-------------------------------------|------------------------|-----------|
| 10130802    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10268907    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10026837    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10097431    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10164438    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10211435    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10227181    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10236193    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10262697    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10276314    | 6                   | -                                   | -                                             | -                                   | 4.5                   | -                    | -                                   | -                      | Coil      |
| 10269951    | 6                   | 41.0                                | 36.0                                          | 6.0                                 | 4.5                   | 2.9                  | 5.0                                 | 65                     | Coil      |
| 10283109    | 6                   | 41.0                                | 36.0                                          | 6.0                                 | 4.5                   | 2.9                  | 5.0                                 | 65                     | Drum      |
| 10067637    | 10                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10097434    | 10                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10262691    | 10                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10043666    | 10                  | 57.0                                | 50.0                                          | 3.5                                 | 5.8                   | 3.8                  | 3.0                                 | 125                    | Coil      |
| 10053260    | 16                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10097436    | 16                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10262694    | 16                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10043672    | 16                  | 76.0                                | 68.0                                          | 2.4                                 | 6.8                   | 4.7                  | 2.0                                 | 160                    | Coil      |
| 10059815    | 16                  | 76.0                                | 68.0                                          | 2.4                                 | 6.8                   | 4.7                  | 2.0                                 | 160                    | Drum      |
| 10067636    | 25                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10244099    | 35                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |

## PRODUCT LIST WITH RED SHEATH

| Nexans Ref. | Cross section [mm²] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, single phase [V/A.km] | Nom. outer diam. [mm] | Conductor diam. [mm] | Voltage drop, 3 conductors [V/A.km] | Approx. weight [kg/km] | Packaging |
|-------------|---------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-----------------------|----------------------|-------------------------------------|------------------------|-----------|
| 10026608    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | -         |
| 10026623    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | -         |
| 10241743    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Box       |
| 10026400    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10026610    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10028634    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10058781    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10097303    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10130804    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |
| 10268906    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Coil      |

| Nexans Ref. | Cross section [mm²] | Permissible current (one phase) [A] | Permissible current rating (3 conductors) [A] | Voltage drop, single phase [V/A.km] | Nom. outer diam. [mm] | Conductor diam. [mm] | Voltage drop, 3 conductors [V/A.km] | Approx. weight [kg/km] | Packaging |
|-------------|---------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|-----------------------|----------------------|-------------------------------------|------------------------|-----------|
| 10026839    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10097430    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10164439    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10186332    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10227182    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10236214    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10262698    | 6                   | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10276232    | 6                   | -                                   | -                                             | -                                   | 4.5                   | -                    | -                                   | -                      | Coil      |
| 10269952    | 6                   | 41.0                                | 36.0                                          | 6.0                                 | 4.5                   | 2.9                  | 5.0                                 | 65                     | Coil      |
| 10283110    | 6                   | 41.0                                | 36.0                                          | 6.0                                 | 4.5                   | 2.9                  | 5.0                                 | 65                     | Drum      |
| 10097433    | 10                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10262692    | 10                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10269367    | 10                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10043667    | 10                  | 57.0                                | 50.0                                          | 3.5                                 | 5.8                   | 3.8                  | 3.0                                 | 125                    | Coil      |
| 10059516    | 16                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10097437    | 16                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10262695    | 16                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10043673    | 16                  | 76.0                                | 68.0                                          | 2.4                                 | 6.8                   | 4.7                  | 2.0                                 | 160                    | Coil      |
| 10059816    | 16                  | 76.0                                | 68.0                                          | 2.4                                 | 6.8                   | 4.7                  | 2.0                                 | 160                    | Drum      |
| 10067635    | 25                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |
| 10244098    | 35                  | -                                   | -                                             | -                                   | -                     | -                    | -                                   | -                      | Drum      |

### GAMMES ET COULEURS DISPONIBLES POUR PASSEO

