



Conductors without external sheath, PVC insulation, for general use

STANDARDS

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

APPLICATION

Nexans H07V-U conductors are used for fixed protected installations : i.e. lights or control gear (from offices, domestic or commercial buildings ...) with voltage $\leq 1000\text{V AC}$ or $\leq 750\text{ V DC}$

Design

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

INSTALLATION

Open air, in conduit, in cable trunking, in cable ducting. Thanks to the sliding properties of insulation, H07V-U is made to facilitate processing while pulling in.

Permissible current and voltage drop are given

For conductor laid alone in insulating tube on a wall Temperature = 30°C .
Permanent operation
If conditions are different, apply correction factors from NF C 15-100 standard or other equivalent national standard.

Voltage drop

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

MARKING

S.Y + USE «har» H07V-U factory number



Conductor flexibility
Solid class 1



Lead free
Yes



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



Mechanical
resistance to
impacts
Low



Flame retardant



Max. conductor
temp. in service
 70°C



Operating temp.
 $-5 \dots 60^{\circ}\text{C}$



Weather resistance
No

CHARACTERISTICS

Construction characteristics

Conductor flexibility	Solid class 1
Conductor material	Bare copper
Conductor shape	Circular
Insulation	PVC
Lead free	Yes

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	450/750 V
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Mechanical characteristics

Mechanical resistance to impacts	Low
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Usage characteristics

Flame retardant	
Max. conductor temperature in service	70 °C
Short-circuit max. conductor temperature	160 °C
Operating temperature, range	-5 ... 60 °C
Weather resistance	No
Chemical resistance	Accidental
Water proof	Low

PRODUCT LIST FOR 100M SPOOL CONDITIONNING

Nexans Ref.	Name	Max. outer diam. [mm]	Approx. weight [kg/km]	Permissible current rating (3 conductors) [A]	Permissible current (one phase) [A]	Voltage drop, 3 conductors [V/A.km]	Voltage drop, single phase [V/A.km]
10287152	Nexans H07V-U MOBIWAY POP 1x1.5 blue D100	3.2	18	15.5	17.5	20.0	23.0
10287153	Nexans H07V-U MOBIWAY POP 1x1.5 red D100	3.2	18	15.5	17.5	20.0	23.0
10287154	Nexans H07V-U MOBIWAY POP 1G1.5 green/yellow D100	3.2	18	15.5	17.5	20.0	23.0
10287155	Nexans H07V-U MOBIWAY POP 1x1.5 black D100	3.2	18	15.5	17.5	20.0	23.0



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70 °C



Operating temp.
-5 ... 60 °C



Weather resistance
No

Nexans Ref.	Name	Max. outer diam. [mm]	Approx. weight [kg/km]	Permissible current rating (3 conductors) [A]	Permissible current (one phase) [A]	Voltage drop, 3 conductors [V/A.km]	Voltage drop, single phase [V/A.km]
10287156	Nexans H07V-U MOBIWAY POP 1x1.5 orange D100	3.2	18	15.5	17.5	20.0	23.0
10287157	Nexans H07V-U MOBIWAY POP 1x1.5 purple D100	3.2	18	15.5	17.5	20.0	23.0

PRODUCT LIST FOR 100 M CONDITIONNING

Nexans Ref.	Cross section [mm²]	Sheath colour	Max. outer diam. [mm]	Approx. weight [kg/km]	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]
10026378	1.5	Black	-	-	-	-	-	-
10269978	1.5	Black	3.2	18	17.5	15.5	20.0	23.0
10287155	1.5	Black	3.2	18	17.5	15.5	20.0	23.0
10026372	1.5	Blue	-	-	-	-	-	-
10225996	1.5	Blue	-	-	-	-	-	-
10243643	1.5	Blue	-	-	-	-	-	-
10274808	1.5	Blue	-	-	-	-	-	-
10269975	1.5	Blue	3.2	18	17.5	15.5	20.0	23.0
10287152	1.5	Blue	3.2	18	17.5	15.5	20.0	23.0
10026376	1.5	Brown	-	-	-	-	-	-
10269976	1.5	Brown	3.2	18	17.5	15.5	20.0	23.0
10026374	1.5	Green / Yellow	-	-	-	-	-	-
10225997	1.5	Green / Yellow	-	-	-	-	-	-
10274807	1.5	Green / Yellow	-	-	-	-	-	-
10274810	1.5	Green / Yellow	-	-	-	-	-	-
10269963	1.5	Green / Yellow	3.2	18	17.5	15.5	20.0	23.0
10287154	1.5	Green / Yellow	3.2	18	17.5	15.5	20.0	23.0
10269977	1.5	Grey	3.2	18	17.5	15.5	20.0	23.0
10269974	1.5	Ivory	3.2	18	17.5	15.5	20.0	23.0



Conductor flexibility
Solid class 1



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temp. in service
70 °C



Operating temp.
-5 ... 60 °C



Weather resistance
No

Nexans Ref.	Cross section [mm ²]	Sheath colour	Max. outer diam. [mm]	Approx. weight [kg/km]	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]
10026380	1.5	Orange	-	-	-	-	-	-
10269979	1.5	Orange	3.2	18	17.5	15.5	20.0	23.0
10287156	1.5	Orange	3.2	18	17.5	15.5	20.0	23.0
10269981	1.5	Purple	3.2	18	17.5	15.5	20.0	23.0
10287157	1.5	Purple	3.2	18	17.5	15.5	20.0	23.0
10026382	1.5	Red	-	-	-	-	-	-
10225995	1.5	Red	-	-	-	-	-	-
10269980	1.5	Red	3.2	18	17.5	15.5	20.0	23.0
10287153	1.5	Red	3.2	18	17.5	15.5	20.0	23.0
10026384	1.5	Violet	-	-	-	-	-	-
10026391	2.5	Black	-	-	-	-	-	-
10269985	2.5	Black	3.9	28	24.0	21.0	12.0	14.0
10026386	2.5	Blue	-	-	-	-	-	-
10225999	2.5	Blue	-	-	-	-	-	-
10274812	2.5	Blue	-	-	-	-	-	-
10269983	2.5	Blue	3.9	28	24.0	21.0	12.0	14.0
10287158	2.5	Blue	3.9	28	24.0	21.0	12.0	14.0
10058059	2.5	Brown	-	-	-	-	-	-
10274811	2.5	Brown	-	-	-	-	-	-
10269984	2.5	Brown	3.9	28	24.0	21.0	12.0	14.0
10026388	2.5	Green / Yellow	-	-	-	-	-	-
10226000	2.5	Green / Yellow	-	-	-	-	-	-
10274834	2.5	Green / Yellow	-	-	-	-	-	-
10026389	2.5	Green / Yellow	3.9	-	24.0	21.0	12.0	14.0
10269982	2.5	Green / Yellow	3.9	28	24.0	21.0	12.0	14.0
10287160	2.5	Green / Yellow	3.9	28	24.0	21.0	12.0	14.0
10026393	2.5	Orange	-	-	-	-	-	-
10269986	2.5	Orange	3.9	28	24.0	21.0	12.0	14.0
10269949	2.5	Purple	3.9	28	24.0	21.0	12.0	14.0
10026394	2.5	Red	-	-	-	-	-	-
10225998	2.5	Red	-	-	-	-	-	-



Conductor flexibility
Solid class 1



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Operating temp.
-5 ... 60 °C



Weather resistance
No

Nexans Ref.	Cross section [mm ²]	Sheath colour	Max. outer diam. [mm]	Approx. weight [kg/km]	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]
10269948	2.5	Red	3.9	28	24.0	21.0	12.0	14.0
10287159	2.5	Red	3.9	28	24.0	21.0	12.0	14.0

PRODUCT LIST FOR 500M CONDITIONNING

Nexans Ref.	Cross section [mm ²]	Sheath colour	Max. outer diam. [mm]	Approx. weight [kg/km]	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]
10043637	1.5	Blue	-	-	-	-	-	-
10043638	1.5	Brown	-	-	-	-	-	-
10140205	1.5	Dark blue	3.2	18	17.5	15.5	20.0	23.0
10043646	1.5	Ivory	-	-	-	-	-	-
10043640	1.5	Red	-	-	-	-	-	-
10026430	1.5	Violet	-	-	-	-	-	-
10043642	1.5	Violet	-	-	-	-	-	-
10027875	2.5	Black	-	-	-	-	-	-
10043649	2.5	Black	3.9	28	24.0	21.0	12.0	14.0
10027868	2.5	Blue	-	-	-	-	-	-
10043650	2.5	Blue	3.9	28	24.0	21.0	12.0	14.0
10043651	2.5	Brown	3.9	28	24.0	21.0	12.0	14.0
10043648	2.5	Green / Yellow	3.9	28	24.0	21.0	12.0	14.0
10043627	2.5	Grey	3.9	28	24.0	21.0	12.0	14.0
10043625	2.5	Ivory White - RAL 1015	3.9	28	24.0	21.0	12.0	14.0
10043748	2.5	Orange	3.9	28	24.0	21.0	12.0	14.0
10043652	2.5	Red	3.9	28	24.0	21.0	12.0	14.0
10043653	2.5	Violet	3.9	28	24.0	21.0	12.0	14.0

PRODUCT LIST FOR 750M CONDITIONNING

Nexans Ref.	Cross section [mm ²]	Sheath colour	Max. outer diam. [mm]	Approx. weight [kg/km]	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]
10124399	1.5	Black	3.2	18	17.5	15.5	20.0	23.0



Conductor flexibility
Solid class 1



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Yes



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Max. conductor
temp. in service
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Operating temp.
-5 ... 60 °C



Weather resistance
No

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10124400	1.5	Blue	3.2	18	17.5	15.5	20.0	23.0
10124401	1.5	Brown	3.2	18	17.5	15.5	20.0	23.0
10140149	1.5	Dark blue	3.2	18	17.5	15.5	20.0	23.0
10124398	1.5	Green / Yellow	3.2	18	17.5	15.5	20.0	23.0
10124418	1.5	Grey	3.2	18	17.5	15.5	20.0	23.0
10124417	1.5	Ivory	3.2	18	17.5	15.5	20.0	23.0
10124416	1.5	Orange	3.2	18	17.5	15.5	20.0	23.0
10124403	1.5	Red	3.2	18	17.5	15.5	20.0	23.0
10124414	1.5	Violet	3.2	18	17.5	15.5	20.0	23.0



Conductor flexibility
Solid class 1



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-5 ... 60 °C



Weather resistance
No

GAMMES ET COULEURS DISPONIBLES POUR PASSEO

