

# Cat HP J-hook, pre-galvanized, 33.3 mm diameter

## CATALOG NUMBER

### CAT21HP



nVent CADDY Cat HP J-Hooks are the foundation of the nVent CADDY Cat HP System. The revamped nVent CADDY Cat HP J-Hook offers contractors three unique, UL-certified attachment methods out of the box—wall, ceiling, and threaded rod installations. This added functionality enables contractors to reduce SKU inventory while maintaining efficiency and continued progress on the jobsite with the most common structural attachment methods.

The modernized design of the nVent CADDY Cat HP J-Hook is engineered to provide optimal support and protection for today's rapidly evolving, high-performing low voltage cable. Contractors can feel confident utilizing the nVent CADDY Cat HP J-Hook due to its installation versatility, superior cable support and protection, and technical certifications.

## FEATURES

One through-hole for easier installation of threaded rod

Versa-Mount Technology: Innovative attachment design provides multiple structural and installation methods for wall, ceiling, and threaded rod mounting applications

Improved design allows for optimized inventory, reducing job site scheduling risks associated with multiple SKUs

Provides optimal support for high-performance data cable—including category cable, Power over Ethernet (PoE), and fiber optic

Complies with EN 50174-2

Meets ISO®/IEC 14763-2, ANSI®/TIA 568 and ANSI®/TIA 569



## PRODUCT ATTRIBUTES

Article Number: 181188

Material: Steel

Finish: Pregalvanized

Diameter (Ø): 33.3 mm

Area: 1174mm<sup>2</sup>

Cable Capacity, Cat 5e: 50

Cable Capacity, Cat 6: 40

Cable Capacity, Cat 6A: 25

Height 1 (H1): 122.2mm

Height 2 (H2): 103.6mm

Static Load: 267N

## ADDITIONAL PRODUCT DETAILS

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Non-continuous supports may not exceed spacing of 5' (1.5 m) per TIA 569-C.9.7 and EN 50174-2.

Cable capacity is calculated based on a 70% fill rate.

| Fire Rated Power Cable Capacity (Distance between J-hooks must not exceed 500 mm center to center) |                                   |                  |                |                  |                |                  |             |                |             |
|----------------------------------------------------------------------------------------------------|-----------------------------------|------------------|----------------|------------------|----------------|------------------|-------------|----------------|-------------|
| Part Number                                                                                        |                                   | CAT16HP          |                | CAT32HP CAT48HP  |                | CAT64HP          |             | CAT64HP        |             |
| Configuration                                                                                      |                                   | Single Layer     |                | Single Layer     |                | Single Layer     |             | Double Layer   |             |
| Max Load per Support [kg/m]                                                                        |                                   | 0.8 kg/m         |                | 1.4 kg/m         |                | 2.6 kg/m         |             | 2 kg/m         |             |
| Cable                                                                                              | Linear Weight of the Cable [kg/m] | Number of Cables | Classification | Number of Cables | Classification | Number of Cables |             | Classification |             |
| 4x1,5<br>(N)HXH<br>FE180 E30-E60                                                                   | 0.234                             | 3                | E30            | 5                | E30 E60        | 11               | E30 E60     | 8              | E30 E60     |
| 5x1,5<br>(N)HXH FE<br>180 E30-E60                                                                  | 0.277                             | 2                |                | 5                | E30            | 9                | E30         | 7              | E30         |
| 7x1,5<br>(N)HXH FE<br>180 E30-E60                                                                  | 0.330                             | 2                |                | 4                |                | 7                |             | 6              |             |
| 12x1,5<br>(N)HXH FE<br>180 E30-E60                                                                 | 0.513                             | 1                |                | 2                |                | 5                |             | 3              |             |
| 19x1,5<br>(N)HXH FE<br>180 E30-E60                                                                 | 0.715                             | 1                |                | 1                |                | 3                |             | 2              |             |
| 24x1,5<br>(N)HXH FE<br>180 E30-E60                                                                 | 0.901                             | -                |                | 1                |                | 2                |             | 2              |             |
| 30x1,5<br>(N)HXH FE<br>180 E30-E60                                                                 | 1.052                             | -                |                | 1                |                | 2                |             | 1              |             |
| 2x2,5<br>(N)HXH FE<br>180 E30-E60                                                                  | 0.178                             | 4                | E30            | -                | -              | -                | -           | -              | -           |
| 3x2,5<br>(N)HXH FE<br>180 E30-E60                                                                  | 0.250                             | 3                |                | -                | -              | -                | -           | -              | -           |
| 4x2,5<br>(N)HXH FE<br>180 E30-E60                                                                  | 0.296                             | 2                |                | -                | -              | -                | -           | -              | -           |
| 5x2,5<br>(N)HXH FE<br>180 E30-E60                                                                  | 0.352                             | 2                |                | -                | -              | -                | -           | -              | -           |
| 4x1,5<br>(N)HXH FE<br>180 E90                                                                      | 0.234                             | 3                | E30 E60 E90    | 5                | E30 E60 E90    | 11               | E30 E60 E90 | 8              | E30 E60 E90 |
| 5x1,5<br>(N)HXH FE<br>180 E90                                                                      | 0.277                             | 2                |                | 5                |                | 9                |             | 7              |             |
| 7x1,5<br>(N)HXH FE<br>180 E90                                                                      | 0.330                             | 2                |                | 4                |                | 7                |             | 6              |             |

|                                                                                        |       |                                                            |     |                  |                  |              |
|----------------------------------------------------------------------------------------|-------|------------------------------------------------------------|-----|------------------|------------------|--------------|
| 12x1,5<br>(N)HXH FE<br>180 E90                                                         | 0.511 | 1                                                          | 2   | 5                | 3                |              |
| 24x1,5<br>(N)HXH FE<br>180 E90                                                         | 0.901 | -                                                          |     | 1                | 2                | 2            |
| 2x2x0,8 JE-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                        | 0.060 | 13                                                         | E30 | -                | -                | -            |
| 4x2x0,8 JE-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                        | 0.102 | 7                                                          |     | -                | -                | -            |
| 8x2x0,8 JE-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                        | 0.221 | 3                                                          |     | -                | -                | -            |
| 12x2x0,8 J<br>E-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                   | 0.281 | 2                                                          |     | -                | -                | -            |
| 16x2x0,8 J<br>E-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                   | 0.326 | 2                                                          |     | -                | -                | -            |
| 20x2x0,8 J<br>E-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                   | 0.421 | 1                                                          |     | -                | -                | -            |
| 32x2x0,8 J<br>E-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                   | 0.588 | 1                                                          |     | -                | -                | -            |
| 40x2x0,8 J<br>E-<br>H(St)H...Bd<br>FE180 E30-<br>E90                                   | 0.761 | 1                                                          |     | -                | -                | -            |
| Fire rating applicable when<br>linking specified J-hook to<br>the following components |       | Fire rating applicable to the following riveted assemblies |     |                  |                  |              |
| Part number                                                                            |       | Part number                                                |     |                  |                  |              |
| CATHPAN                                                                                |       | CAT16HPAB                                                  |     | CAT32HPAB        | CAT48HPAB        | CAT64HPAB    |
| CATHPA4                                                                                |       | CAT16HPBCB                                                 |     | CAT32HPAF<br>AB3 | CAT48HPAF<br>AB3 | CAT64HPAFAB3 |
| CATHPA6                                                                                |       | CAT16HPBC200B                                              |     | CAT32HPAF<br>AB4 | CAT48HPAF<br>AB4 | CAT64HPAFAB4 |
| CATHPTM                                                                                |       | CAT16HP24SM                                                |     | CAT32HPAF<br>AB6 | CAT48HPBC<br>B   | CAT64HPBCB   |

|             |              |               |              |               |
|-------------|--------------|---------------|--------------|---------------|
| CATHPBCB    | CAT16HP58SM  | CAT32HPBCB    | CAT48HP58SM  | CAT64HPBC200B |
| CATHPBC200B | CAT16HP912SM | CAT32HPBC200B | CAT48HP912SM | CAT64HP58SM   |
| CATHP912SM  | CAT16HP24    | CAT32HP24SM   | CAT48HP24    | CAT64HP912SM  |
| CATHP24     | CAT16HP58    | CAT32HP912SM  | CAT48HP58    | CAT64HP24     |
| CATHP58     | -            | CAT32HP24     | -            | -             |
| CATHP912    | -            | -             | -            | -             |

### DIAGRAMS



### WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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