

1SN ISO 1436 / SAE 100 R1AT MSHA "HA" HIGH ABRASION RESISTANCE

Applicable Standard

ISO 1436 1SN  
SAE J517 100 R1 AT



Liner

Oil resistant synthetic rubber

Reinforcement

One braid of high tensile steel wire

Cover

High abrasion resistance (HA) syntetic rubber MSHA approved

Application

High pressure hydraulic lines

Temperature

Hydraulics Oils: from -40°C to 100°C (from -40°F to 212°F)  
Water Glycol Hydraulic Fluids: from -40°C to 70°C (from -40°F to 158°F)  
Water: from 0°C to 70°C (from 32°F to 158°F)  
Air: up to 70°C (up to 158°F)

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|-------------------------------------------------------------------------------|----|-----------|--------|------|------|-------|------|------|-----|-------|-----|-------|------|-------|--|
| **                                                                            | DN | dash size | inch   | mm   | mm   | inch  | MPa  | psi  | MPa | psi   | mm  | inch  | g/m  | lb/ft |  |
| 1SNMSHAHA-3                                                                   | 5  | -3        | 3/16"  | 4,8  | 12,5 | 0,492 | 25   | 3625 | 100 | 14500 | 90  | 3,54  | 184  | 0,124 |  |
| 1SNMSHAHA-4                                                                   | 6  | -4        | 1/4"   | 6,4  | 14,1 | 0,555 | 22,5 | 3260 | 90  | 13050 | 100 | 3,94  | 221  | 0,149 |  |
| 1SNMSHAHA-5                                                                   | 8  | -5        | 5/16"  | 7,9  | 15,7 | 0,618 | 21   | 3045 | 84  | 12180 | 115 | 4,53  | 259  | 0,174 |  |
| 1SNMSHAHA-6                                                                   | 10 | -6        | 3/8"   | 9,5  | 18,1 | 0,713 | 18   | 2610 | 72  | 10440 | 130 | 5,12  | 348  | 0,234 |  |
| 1SNMSHAHA-8                                                                   | 12 | -8        | 1/2"   | 12,7 | 21,4 | 0,843 | 16   | 2320 | 64  | 9280  | 180 | 7,09  | 410  | 0,276 |  |
| 1SNMSHAHA-10                                                                  | 16 | -10       | 5/8"   | 15,9 | 24,5 | 0,965 | 13   | 1885 | 52  | 7540  | 200 | 7,87  | 486  | 0,327 |  |
| 1SNMSHAHA-12                                                                  | 19 | -12       | 3/4"   | 19   | 28,5 | 1,122 | 10,5 | 1520 | 42  | 6090  | 240 | 9,45  | 625  | 0,42  |  |
| 1SNMSHAHA-16                                                                  | 25 | -16       | 1"     | 25,4 | 36,6 | 1,441 | 8,7  | 1262 | 35  | 5075  | 300 | 11,81 | 926  | 0,622 |  |
| 1SNMSHAHA-20                                                                  | 31 | -20       | 1.1/4" | 31,8 | 44,8 | 1,764 | 6,3  | 914  | 25  | 3625  | 420 | 16,54 | 1231 | 0,827 |  |
|                                                                               |    |           |        |      |      |       |      |      |     |       |     |       |      |       |  |
|                                                                               |    |           |        |      |      |       |      |      |     |       |     |       |      |       |  |
|                                                                               |    |           |        |      |      |       |      |      |     |       |     |       |      |       |  |

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|-------------------------------------------------------------------------------|----|--------|--------|----------------|-------|--------------------|------|----------------|------|----------------|------|----------------|------|--------------|-------|
|                                                                               |    |        |        | crimping Ø +/- |       | crimping style +/- |      | int. skive +/- |      | ext. skive +/- |      | ins. depth +/- |      | ferrule code |       |
|                                                                               |    |        |        | 0,2            | 0,008 |                    |      | 0,5            | 0,02 | 0,5            | 0,02 | 0,5            | 0,02 |              |       |
|                                                                               | DN | dash s | inch   | mm             | inch  | mm                 | inch | mm             | inch | mm             | inch | mm             | inch |              |       |
| 1SNMSHAHA-3                                                                   | 5  | -3     | 3/16"  | 14,5           | 0,571 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 21           | 0,827 |
| 1SNMSHAHA-4                                                                   | 6  | -4     | 1/4"   | 16,8           | 0,661 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 24           | 0,945 |
| 1SNMSHAHA-5                                                                   | 8  | -5     | 5/16"  | 18,9           | 0,744 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 25           | 0,984 |
| 1SNMSHAHA-6                                                                   | 10 | -6     | 3/8"   | 21,4           | 0,843 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 25           | 0,984 |
| 1SNMSHAHA-8                                                                   | 12 | -8     | 1/2"   | 25,0           | 0,984 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 27           | 1,063 |
| 1SNMSHAHA-10                                                                  | 16 | -10    | 5/8"   | 27,8           | 1,094 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 30           | 1,181 |
| 1SNMSHAHA-12                                                                  | 19 | -12    | 3/4"   | 31,8           | 1,252 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 35           | 1,378 |
| 1SNMSHAHA-16                                                                  | 25 | -16    | 1"     | 40,2           | 1,583 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 41           | 1,614 |
| 1SNMSHAHA-20                                                                  | 31 | -20    | 1.1/4" | 47,8           | 1,882 | FLAT               | 0    | 0              | 0    | 0              | 0    | 0              | 0    | 49           | 1,929 |

This hose fits with SERIES 1 couplings

ISO 1436 1SN DN \*\* / SAE 100 R1 AT \*/\*\* HA WP \*\* MPa ( \*\*\* bar ) MSHA IC-\*\*/\*\*