

Ultra-Flexible High-Voltage Shielded Composite Wire

High-Voltage Series

P/N HVW-260-1NJ-XXN-FLX



Our 1,000-volt composite wires offer exceptional flexibility in smaller-diameter, lightweight constructions for applications requiring total temperatures of up to 260 °C. These wires feature:

- » A nickel-plated copper shield which offers electromagnetic interference (EMI) protection or can be used for ground fault detection
- » Seamless™ Wrap PTFE jacket technology which offers all the advantages of tape wrap, with a smooth outer surface that improves installation characteristics
- » Highly flexible conductor strands which make the cable easy to work with on the production floor

FEATURES	BENEFITS
High-voltage performance of 1,000 V	<ul style="list-style-type: none">• Corona resistant
Shielded construction	<ul style="list-style-type: none">• EMI protection• Ground fault detection
Minimum bend radius of 6x	<ul style="list-style-type: none">• Allows routing around tight bends and in restricted areas
UV laser marking	<ul style="list-style-type: none">• Easily identify wire for customer and end-users
Tape-wrapped composite construction	<ul style="list-style-type: none">• Light weight and small diameter
Seamless™ jacket construction	<ul style="list-style-type: none">• Smooth appearance and installation characteristics of an extrusion
Exceptional arc-propagation resistance	<ul style="list-style-type: none">• Key safety factor for customer and end-users
High-strand-count conductor	<ul style="list-style-type: none">• Extremely flexible for installation and routing purposes

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SPECIFICATIONS & PERFORMANCE

P/N	Wire Size (AWG)	Conductor Stranding Number x AWG	Diameter in (mm)						Max Resistance @ 20° C Ω/kFT (Ω/km)	Nom. Weight lb/kFT (kg/km)
			Conductor		Nom. Insulation	Nom. Shield	Outer Jacket			
			Min	Max			Nom.	Max		
HVW-260-1NJ-8N-FLX	8	665 x 36	0.157 (3.99)	0.173 (4.39)	0.199 (5.06)	0.221 (5.61)	0.243 (6.17)	0.251 (6.38)	0.714 (2.34)	84.4 (126)
HVW-260-1NJ-6N-FLX	6	1045 x 36	0.192 (4.88)	0.208 (5.28)	0.233 (5.92)	0.255 (6.48)	0.277 (7.04)	0.285 (7.24)	0.490 (1.61)	121 (182)
HVW-260-1NJ-4N-FLX	4	1665 x 36	0.265 (6.73)	0.285 (7.24)	0.319 (8.10)	0.341 (8.66)	0.363 (9.22)	0.373 (9.47)	0.326 (1.07)	186 (278)
HVW-260-1NJ-2N-FLX	2	1665 x 34	0.325 (8.26)	0.345 (8.76)	0.376 (9.55)	0.404 (10.26)	0.426 (10.82)	0.436 (11.07)	0.193 (0.633)	276 (412)
HVW-260-1NJ-1N-FLX	1	2109 x 34	0.370 (9.40)	0.400 (10.16)	0.431 (10.95)	0.459 (11.66)	0.481 (12.22)	0.496 (12.60)	0.163 (0.535)	351 (524)
HVW-260-1NJ-1/0N-FLX	1/0	2660 x 34	0.435 (11.0)	0.465 (11.8)	0.489 (12.42)	0.511 (12.98)	0.533 (13.54)	0.548 (13.92)	0.133 (0.436)	420 (626)
HVW-260-1NJ-2/0N-FLX	2/0	3325 x 34	0.485 (12.3)	0.515 (13.1)	0.543 (13.79)	0.565 (14.35)	0.587 (14.91)	0.602 (15.29)	0.102 (0.335)	517 (770)
HVW-260-1NJ-3/0N-FLX	3/0	4123 x 34	0.540 (13.7)	0.575 (14.6)	0.599 (15.22)	0.621 (15.77)	0.643 (16.33)	0.660 (16.76)	0.073 (0.240)	620 (924)
HVW-260-1NJ-4/0N-FLX	4/0	5320 x 34	0.615 (15.6)	0.655 (16.6)	0.675 (17.15)	0.697 (17.70)	0.719 (18.26)	0.739 (18.77)	0.057 (0.187)	786 (1170)

Mechanical		
Insulation	Material	PTFE tape-wrapped composite
	Color	White
Jacket	Material	Seamless™ PTFE tape wrap
	Color	White
Conductor		High-strand-count nickel-plated copper
Shield	Material	Nickel-plated copper
	Coverage	85%
UV Laser Marking		60% nom.
Temp Range		-65 to 260 °C

Electrical		
Voltage	Rating	1,000 V
	Dielectric Withstand	3,000 V
Corona Extinction		1,000 V