

NU-FLEX HTS



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Thermal Protection



Uncoated & Coated Sleeving



Uncoated braided fiberglass



Heat treated fiberglass
Saturated with acrylic binder



Option: Black, natural (silver-gray)
White, yellow, red, blue, green. Other colors upon request



Low: -70°C (-94°F)

High: 600°C (1112°F)

Insulation class: meet the requirement of class C rated at 240°C (464°F).



Options: Nu-Flex HTS-520: standard wall .020"
Nu-Flex HTS-532: heavy wall .032"



Thermal insulation
High temperature resistance
Abrasion resistance



UZIQ2 - E80713 - VW1 Rating

Nu-Flex HTS-520: MIL-Y-1140H, QPL 3190, NEMA TF2 - Type 3, ASTM E 162 - Surface flammability, Bombardier SMP 800-C Rev. 6 : Gas toxicity, ASTM E 662 : Rate of Smoke Generation, NFPA 130 specifications for transportation applications (mass transit, rail cars, locomotives)

Nu-Flex HTS-532: NEMA TF2 - Type 4
RoHS, REACH, CMRT



PHYSICAL PROPERTIES

Physical properties	Spec	Value	
Operating temperature	-	-70/600°C (-94/1112°F)	
Maximal temperature for short period	-	950°C (1742°F)	
Dielectric breakdown	-	grade C-3 (no dielectric value)	
Volume resistivity	-	10 ¹⁴ ohm-cm @ 22°C (72°F) and 500 Volts DC	
Oil resistance	-	no swelling or disintegration	
Fungus resistance	-	inert (requires no fungicide additives)	
Abrasion resistance	SAE ARP 1536	Nu-Flex HTS-520 > 1 000 cycles	Nu-Flex HTS-532 > 2 000 cycles
Flammability	UL 1441 VW-1	pass	
Fungus resistance	-	Inert - none at 40x	
Flammability	-	self-extinguishing with removal of heat source	
Surface flammability*	ASTM E 162	pass	
Toxic gas generation*	Bombardier SMP 800-C	pass	
Rate of smoke generation*	ASTM E 662	pass	
Caloric Content Determination	ASTM E 1354	pass	
Flame Propagation	ASTM C 1166 (modified)	pass	

*Specific to Nu-Flex HTS-520

DIMENSIONS

Designation	NEMA Size	Minimum Ø (inches)	Maximum Ø (inches)	Indicative nominal Ø	
				(inches)	(mm)
NU-FLEX HTS-520 AWG 24	AWG 24	0.020	0.027	0.024	0.61
NU-FLEX HTS-520 AWG 22	AWG 22	0.025	0.032	0.029	0.74
NU-FLEX HTS-520 AWG 20	AWG 20	0.032	0.039	0.036	0.91
NU-FLEX HTS-520 AWG 19	AWG 19	0.036	0.044	0.040	1.02
NU-FLEX HTS-520 AWG 18	AWG 18	0.040	0.049	0.045	1.14
NU-FLEX HTS-520 AWG 17	AWG 17	0.045	0.054	0.050	1.27
NU-FLEX HTS-520 AWG 16*	AWG 16	0.051	0.061	0.056	1.42
NU-FLEX HTS-520 AWG 15*	AWG 15	0.057	0.067	0.062	1.57
NU-FLEX HTS-520 AWG 14*	AWG 14	0.064	0.074	0.069	1.75
NU-FLEX HTS-520 AWG 13*	AWG 13	0.072	0.082	0.077	1.96
NU-FLEX HTS-520 AWG 12*	AWG 12	0.081	0.091	0.086	2.18
NU-FLEX HTS-520 AWG 11*	AWG 11	0.091	0.101	0.096	2.44
NU-FLEX HTS-520 AWG 10*	AWG 10	0.102	0.112	0.107	2.72
NU-FLEX HTS-520 AWG 9*	AWG 9	0.114	0.124	0.119	3.02
NU-FLEX HTS-520 AWG 8*	AWG 8	0.129	0.141	0.135	3.43
NU-FLEX HTS-520 AWG 7*	AWG 7	0.144	0.158	0.151	3.84
NU-FLEX HTS-520 AWG 6*	AWG 6	0.162	0.178	0.170	4.32
NU-FLEX HTS-520 AWG 5*	AWG 5	0.182	0.198	0.190	4.83
NU-FLEX HTS-520 AWG 4*	AWG 4	0.204	0.224	0.214	5.44
NU-FLEX HTS-520 AWG 3*	AWG 3	0.229	0.249	0.239	6.07
NU-FLEX HTS-520 AWG 2*	AWG 2	0.258	0.278	0.268	6.81
NU-FLEX HTS-520 AWG 1*	AWG 1	0.289	0.311	0.300	7.62
NU-FLEX HTS-520 5/16*	5/16"	0.313	0.334	0.324	8.23
NU-FLEX HTS-520 AWG 0*	AWG 0	0.325	0.347	0.336	8.53
NU-FLEX HTS-520 3/8*	3/8"	0.375	0.399	0.387	9.83
NU-FLEX HTS-520 7/16	7/16"	0.438	0.462	0.450	11.43
NU-FLEX HTS-520 1/2	1/2"	0.500	0.524	0.512	13.00
NU-FLEX HTS-520 5/8	5/8"	0.625	0.655	0.640	16.26
NU-FLEX HTS-520 3/4	3/4"	0.750	0.786	0.768	19.51
NU-FLEX HTS-520 7/8	7/8"	0.875	0.911	0.893	22.68
NU-FLEX HTS-520 1	1"	1.000	1.036	1.018	25.86
NU-FLEX HTS-520 1 1/8	1 1/8"	1.125	1.161	1.143	29.03
NU-FLEX HTS-520 1 1/4	1 1/4"	1.250	1.286	1.268	32.21
NU-FLEX HTS-520 1 1/2	1 1/2"	1.500	1.536	1.518	38.56

* For heavy wall designation, replace the 520 portion by 532.

PACKAGING

Standard spools, Bulk spools, Cut lengths upon request

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