

THHN THWN-2

Copper Building Wire

Cooper • PVC • Nylon



01 | APPLICATION:

THHN/THWN-2 cables are use in Class 1, Division 2

Hazardous locations such as those encountered in the oil, gas and petrochemical industry. They can be installed in trays, wireways, ducts, conduit and aerially when properly supported by a messenger. They are approved for direct burial, for use in wet or dry locations, and outdoors in cable trays where a sunlight resistant rating is required.

Cable designation: THHN references the Nylon-coated conductor wire, THWN-2 the 90C PVC insulation layer.

02 | CONSTRUCTION:

Conductor Bare Annealed Copper
Insulation PVC-FR/Nylon (Polyvinyl Chloride - Flame Retardant / Nylon)
Ripcord Nylon

Sheath Colour

● Black

Core Identification

Color coded as E2 per ICEA S-73-532

03 | CHARACTERISTICS:

Voltage Rating 600V

Temperature Rating +90°C

STRANDEDZ

KUKA part No	SIZE OF CONDUCTOR		No.&Nominal Diameter of Wire	Wall Thickness		Approximate Overall Diameter	Minimum Insulation Resistance	*Ampacity		Cable Nominal Weight
	MM	Approximate AWG		MM	MM			MM	M-Ohm-km	
KSTH1001	2.0	14/7	7x0.60	0.4	0.10	2.80	130	30	35	23.51
KSTH1001	3.5	12/7	7x0.80	0.4	0.10	3.40	110	35	40	39.12
KSTH1001	5.5	10/7	7x1.00	0.5	0.10	4.20	120	50	55	60.56
KSTH1001	8.0	8/7	7x1.20	0.8	0.13	5.46	120	65	75	91.95
KSTH1001	14	6/7	7x1.60	0.8	0.13	6.66	100	95	105	151.77
KSTH1001	22	4/7	7x2.00	1.0	0.15	8.30	100	130	140	236.65
KSTH1001	30	2/7	7x2.30	1.0	0.15	9.20	100	160	170	306.50
KSTH1001	38	1-19	19x1.60	1.3	0.18	10.96	100	185	195	409.82
KSTH1001	50	1/0-19	19x1.80	1.3	0.18	11.96	100	220	235	509.05
KSTH1001	60	2/0-19	19x2.00	1.3	0.18	12.96	80	250	260	618.96
KSTH1001	80	3/0-19	19x2.30	1.3	0.18	14.96	80	300	320	804.44
KSTH1001	100	4/0-19	19x2.60	1.3	0.18	15.96	80	355	370	1013.94
KSTH1001	125	250MCM	37x2.10	1.6	0.18	18.26	80	400	420	1296.37
KSTH1001	150	300MCM	37x2.30	1.6	0.20	19.7	80	440	475	1542.02
KSTH1001		350MCM	37x2.47	1.6	0.20	20.90	60	505	523	1783.07
KSTH1001	200	400MCM	37x2.60	1.6	0.20	21.80	60	540	570	1946.72
KSTH1001		500MCM	37x2.95	1.6	0.20	24.25	60	620	655	2486.02
KSTH1001	250	500MCM	61x2.30	1.6	0.20	24.30	60	620	655	2437.34
KSTH1001		600MCM	61x2.52	1.8	0.23	26.76	60	690	710	2995.93
KSTH1001	325	650MCM	61x2.60	1.8	0.23	27.46	60	720	770	3191.58
KSTH1001		750MCM	61x2.82	1.8	0.23	29.36	60	785	820	3719.63
KSTH1001	400	800MCM	61x2.90	1.8	0.23	30.16	60	810	875	3927.55
KSTH1001	500	1000MCM	61x3.20	1.8	0.23	32.86	60	930	995	4750.91

SOLID

KUKA part No	SIZE OF CONDUCTOR		No.&Nominal Diameter of Wire	Wall Thickness		Approximate Overall Diameter	Minimum Insulation Resistance	*Ampacity		Cable Nominal Weight
	MM	Approximate AWG		MM	MM			MM	M-Ohm-km	
	Solid			PVC	Nylon					
KSTH2001	1.6	14	1x1.60	0.4	0.10	2.60	130	35	35	22.62
KSTH2001	2.0	12	1x2.00	0.4	0.10	3.00	110	40	40	33.57
KSTH2001	2.6	10	1x2.60	0.5	0.10	3.80	120	55	55	55.78
KSTH2001	3.2	8	1x3.20	0.8	0.13	5.06	120	75	75	88.33