

TECHNICAL DATA SHEET LOW VOLTAGE THHN BUILDING WIRE

Cable Description:

8 AWG CU/PVC (THHN)

Design and Construction Data:				
Reference Manufacturing Standards		American Designation		
Max. Permissible Continuous Conductor Temp	°C	105		
Max. Conductor Short Circuit Temp for 5 Seconds	°C	150		
Rated Voltage	V	600		
Conductor Size	AWG	8		
Number of wires per conductor		19		
Wires Combination		Round Wires Unilay-Stranded		
Insulation Material		Polyvinyl Chloride (PVC)		
Nominal Insulation Thickness	mm	0.76		
Insulation Color		WHITE		
Outer Nylon Jacket		Polyamide Nylon		
Approximate Wire Overall Diameter	mm	5.4		
Electrical Data:				
Max Conductor DC resistance @ 20 °C	ohms/km	2.1400		
Max Conductor AC resistance @ 105 °C	ohms/km	2.8550		
Max Conductor Short Circuit Current @ 1 Second	kA	0.6657		
Current Carry Capacity @ 30 °C Ambient Temperature(1)				
Single-Insulated Conductor				
Laid in free air	A	80		
Not more than Three Current-Carrying Conductors ⁽²⁾				
Laid in Race way, Cable, or Earth {Directly Burried}	A	55		

- (i) Ampacity based on NEC Table 310.15(B)(16) (Formerly Table 310.16) & Table 310.15(B)(17) (Formerly Table 310.17)
 - Refer to 310.15(B)(2)(a) for the ampacity correction factors where the ambient temperature is other than 30°C.
 - Refer to 110.14(C) for temperature rating limitations.
 - See Section 240.4 (D) for conductor overcurrent protection limitations.
- (ii) Refer to 310.15(B)(3)(a) for more than three current-carrying conductors

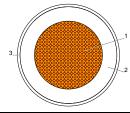
The wire is generally according to: THHN designation

Packing Data:		
Туре		Spool
Length of Cable per Spool (± 2%)	m	152
Net Weight (Approximate)	kg	14.2
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Cable Marking:

BAHRA CABLES CO. KSA THHN / THWN 8 AWG (10 mm2) 600 Volts VW-1 GASOLINE & OIL RESISTANT 105 ° C SASO / IEC 60227-3

Cable Drawing



Description	8 AWG CU/PVC (THHN)	Approx. Diameter
1	Copper conductor with round shape	3.58
2	PVC Insulation	5.1
3	Polyamide Nylon Jacketing	5.36

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