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		ORANGE
Outer Nylon Jacket		Polyamide Nylon
Approximate Wire Overall Diameter	mm	5
Electrical Data:		
Max Conductor DC resistance @ 20 °C	ohms/km	2.1400
Max Conductor AC resistance @ 90 °C	ohms/km	2.7300
Max Conductor Short Circuit Current @ 1 Second	kA	0.7770
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.

- 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

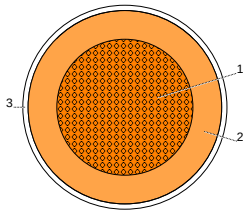
The wire is generally according to: THHN designation

Packing Data:		
Type		Spool
Length of Cable per Spool (± 2%)	m	152
Gross Weight (Approximate)	kg	14

Cable Marking:

BAHRA CABLES CO. KSA THHN / THWN 8 AWG 600 Volts VW-1 GASOLINE & OIL RESISTANT II 105 ° C

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