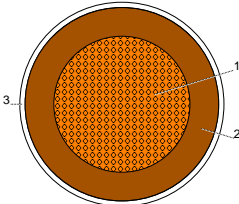


TECHNICAL DATA SHEET LOW VOLTAGE THHN BUILDING WIRE

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 | | BROWN |
| 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 Buried" | 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 |