

TECHNICAL DATA SHEET LOW VOLTAGE THHN BUILDING WIRE

Cable Description:

12 AWG CU/PVC (THHN)

| Design and Construction Data: | | |
|---|---|---|
| | | Amorican Designation |
| Reference Manufacturing Standards Max. Permissible Continuous Conductor Temp | °C | American Designation 105 |
| Max. Conductor Short Circuit Temp for 5 Seconds | °C | 150 |
| | V | |
| Rated Voltage Conductor Size | | 600 |
| | AWG | 12 |
| Number of wires per conductor | | 19 |
| Wires Combination | | Round Wires Unilay-Stranded |
| Insulation Material | | Polyvinyl Chloride (PVC) |
| Nominal Insulation Thickness | mm | 0.38 |
| Insulation Color | | WHITE |
| Outer Nylon Jacket | | Polyamide Nylon |
| Approximate Wire Overall Diameter | mm | 3.2 |
| Electrical Data: | | |
| Max Conductor DC resistance @ 20 °C | ohms/km | 5.4300 |
| Max Conductor AC resistance @ 105 °C | ohms/km | 7.2440 |
| Max Conductor Short Circuit Current @ 1 Second | kA | 0.2639 |
| Current Carry Capacity @ 30 °C Ambient Temperature ⁽¹⁾ | | |
| Single-Insulated Conductor | | |
| Laid in free air | A | 40 |
| | | |
| Not more than three Current-Carrying Conductors ⁽²⁾ | | |
| Not more than Three Current-Carrying Conductors ⁽²⁾ Laid in Race way, Cable, or Earth {Directly Burried} (i) - Ampacity based on NEC Table 310.15(B)(16) (Formerly 1 - Refer to 310.15(B)(2)(a) for the ampacity correction f - Refer to 110.14(C) for temperature rating limitations. | actors where the ar | |
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