



Southwire[®]
 WE DELIVER POWER... RESPONSIBLY[®]

PRODUCT DATA SHEET

Controlled Document - Engineering Drive

1530 Shields Drive
 Waukegan, IL 60085
 Toll-Free (800) 323-9355
 Fax: (847) 689-1192

PART NUMBER: 51587
DESCRIPTION: 500 MCM MTW CABLE
CONSTRUCTION: This cable consists of one bare copper conductor with PVC insulation
APPROVALS: UL Standards 1063, UL 83 & 758, CSA C22.2 No. 210.
APPLICATION: MTW, THHW & AWM

Construction Parameters:

Conductor	500 MCM Bare Copper
Stranding	19x266/30 BC LL
Insulation Material	PVC
Insulation Thickness	0.097" Nom.
Insulated Conductor Diameter	1.034" Nom.
Approximate Cable Weight	1738.3 Lbs/1M' Nom.
Flame Rating	UL 1581 Vertical Tray Flame Test

Electrical Properties:

Temperature Rating	-20°C to 90°C (105C - AWM)
Operating Voltage	600V Max (MTW), 1000V Max (AWM 10269)
DC Resistance per Conductor @ 20°C	0.021 Ohms/1M' Nom.
Ampacity per NFPA 79 Table 12.5.1* for 75°C	380 Amps
Ampacity per NFPA 70 (NEC) Table 310-17 for THHW	700 Amps

Insulation Color	Black (Other colors available - consult factory)
Legend (Surface Ink Print)	E137733 500 MCM 600 VOLT (UL) TYPE MTW VW-1 OR THHW FOR CT USE OR AWM STYLES 1284 & 1339 600V & 10269 1000V SUN RES -- CSA LL37012 AWM I A/B 600V 105C FT1

This product complies with European Directive 2002/95/EC (RoHS)

* Ampacities converted to 105C ampacity using 60C cable temperature and 30C ambient from NFPA 79 Table 12.5.1.

The customer will accept all factory lengths and +/- 10 percent of total order requested.

Material is not returnable and purchase order is non-cancelable after production has been started or special materials have been ordered.

The information presented here is, to the best of our knowledge, is true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.

This specification is proprietary intellectual property of Southwire. Any information contained herein shall not be disclosed to any party without written consent of Southwire.

Customer Name _____ Date Signed _____

Customer Approval _____

Specification Issue Date: September 3, 2009