

Cable, Power, Electrical

6145-01-059-3704

NSN 6145-01-059-3704 · NIIN 010593704 · Part number M27500B20SA3U00

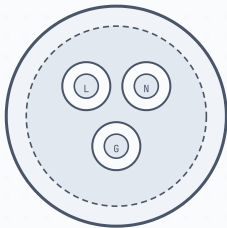
National Electrical Mfrs Assn Dba Nema · FSC 6145 — Wire and Cable, Electrical · FSG 61 — Electric Wire, Power, and Distribution Equipment · CAGE 1P787

GOVERNMENT RECORD, CITED

NSN 6145-01-059-3704 — this item is cataloged by the U.S. Government under National Stock Number 6145-01-059-3704. Manufacturer of record part number: **M27500B20SA3U00**.

ALSO SEARCHED AS 6145-01-059-3704 · 6145010593704 · NIIN 010593704 · 01-059-3704 · FSC 6145 Wire and Cable, Electrical · CAGE 1P787 · M27500B20SA3U00 · ST5M1298-20S3U0 · NEMA-WC27500 · ST5M1298-20S3U0

NEARBY STOCK NUMBERS ← 6145-01-059-3703 Cable, Special Purpose, Electrical · 6145-01-059-3705 Cable, Special Purpose, Electrical →



600.0 MAXIMUM ROOT MEAN SQUARE (RMS) OPERATING VOLTAGE ALL CONDUCTORS rated

WIRE/CABLE CROSS SECTION

6145-01-059-3704 — WIRE AND CABLE, ELECTRICAL

FEATURES

- Cable,power,electrical — FSC 6145
- Round Conductor Size: 20 AWG ALL CONDUCTORS
- Temp Rating: 200.0 CELSIUS DEGC
- Voltage Rating: 600.0 MAXIMUM ROOT MEAN SQUARE (RMS) OPERATING VOLTAGE ALL CONDUCTORS
- Surface Treatment Document and Classification: ASTM B298 ASSN STD SINGLE TREATMENT RESPONSE CORE CONDUCTOR ALL CONDUCTORS
- Cross-Sectional Height: 0.164 INCHES NOMINAL IN
- Cross-Sectional Width: 0.164 INCHES NOMINAL IN
- Precious Material: SILVER

IDENTIFICATION

- NSN: 6145-01-059-3704
- NIIN: 010593704
- FSC: 6145 — Wire and Cable, Electrical
- FSG: 61 — Electric Wire, Power, and Distribution Equipment
- Primary part number: M27500B20SA3U00

- Manufacturer: National Electrical Mfrs Assn DbA Nema

GENERAL DESCRIPTION

The Cable,power,electrical, cataloged under National Stock Number 6145-01-059-3704, is classified within Federal Supply Class 6145 (Wire and Cable, Electrical) of the Electric Wire, Power, and Distribution Equipment group. The manufacturer of record is National Electrical Mfrs Assn DbA Nema. Government technical data includes 20 specifications, cited from the U.S. Government catalog. The record lists 1 manufacturer part number for this item, enabling identification through both NSN and commercial part number lookups. 8 additional reference documents (drawings, advisory and superseded references) are recorded in the U.S. Government catalog. Current acquisition status: Active. Unit of issue: FT.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
NSN	6145-01-059-3704
Primary Part Number	M27500B20SA3U00
Item Name	Cable,power,electrical
FSC / FSG	6145 / 61 — Wire and Cable, Electrical
Manufacturer	National Electrical Mfrs Assn DbA Nema
Status	ACTIVE
Round Conductor Size	20 AWG ALL CONDUCTORS
Temp Rating	200.0 CELSIUS DEGC
Voltage Rating	600.0 MAXIMUM ROOT MEAN SQUARE (RMS) OPERATING VOLTAGE ALL CONDUCTORS
Surface Treatment Document and Classification	ASTM B298 ASSN STD SINGLE TREATMENT RESPONSE CORE CONDUCTOR ALL CONDUCTORS
Cross-Sectional Height	0.164 INCHES NOMINAL IN
Cross-Sectional Width	0.164 INCHES NOMINAL IN
Precious Material	SILVER
Conductor Quantity	3
Strand Awg Size Per Conductor	32 ALL CONDUCTORS
Material Document and Classification	ASTM B298 FED SPEC SINGLE MATERIAL RESPONSE CORE CONDUCTOR ALL CONDUCTORS
Cross-Sectional Shape Style	TWIST
Conductor Form	STRANDED ALL CONDUCTORS
Departure From Cited Document	AS MODIFIED BY COLOR CODE
Strand Quantity Per Conductor	19 ALL CONDUCTORS
Conductor Arrangement and Quantity	3 TWISTED TOGETHER W/NO OUTER COVERING
Color	RED FIRST POSITION COVER ALL CONDUCTORS
Surface Treatment	SILVER CORE CONDUCTOR ALL CONDUCTORS
Precious Material and Location	SURFACE ALL CONDUCTORS SILVER
Material	PLASTIC POLYTETRAFLUOROETHYLENE OR OXIDE ALUMINUM FIRST POSITION PRIMARY INSULATION ALL CONDUCTORS
Material	COPPER CORE CONDUCTOR ALL CONDUCTORS

LIFECYCLE & COMPLIANCE

Acquisition Status	ACTIVE
DEMIL Code	DEMIL A – NO DEMILITARIZATION REQUIRED
Hazard	NO HAZARD CODE IN THE DLA RECORD (HMIC N)
Shelf Life Code	0
Criticality Code	X
Unit of Issue	FT
Acquisition advice code	JN
Weight	0.0300 lbs
Cube	0.0004 cu ft

CROSS-REFERENCE INDEX

PART NUMBER	MANUFACTURER
M27500B20SA3U00 PRIMARY	National Electrical Mfrs Assn Db a Nema (USA)

REFERENCE DOCUMENTS

REFERENCE	MEANING
ST5M1298-20S3U0	5/9 Secondary reference Nexans Aerospace Usa Llc
NEMA-WC27500	3/1 Design control – primary reference National Electrical Mfrs Assn Db a Nema
ST5M1298-20S3U0	5/9 Secondary reference U.S. Government activity
M27500B20SA3U00	5/9 Secondary reference U.S. Government activity
10149837	6/9 Informative reference only Nimikkeistokeskus Ncb Finland
ST5M1298-20S3U0	5/9 Secondary reference U.S. Government activity
MIL-C-27500	5/9 Secondary reference U.S. Government activity
ST5M1298-20S3U0	3/9 Design control – primary reference The Boeing Company Div Defense

FREQUENTLY ASKED QUESTIONS

What is NSN 6145-01-059-3704?

NSN 6145-01-059-3704 is a Cable,power,electrical, manufactured by National Electrical Mfrs Assn Dba Nema, classified under FSC 6145, Wire and Cable, Electrical. Status: active.

What part numbers are listed for NSN 6145-01-059-3704?

NSN 6145-01-059-3704 has 1 manufacturer part number on file: M27500B20SA3U00 (National Electrical Mfrs Assn Dba Nema).

What are the specifications of M27500B20SA3U00?

Key specifications for M27500B20SA3U00: Round Conductor Size: 20 AWG ALL CONDUCTORS; Temp Rating: 200.0 CELSIUS DEGC; Voltage Rating: 600.0 MAXIMUM ROOT MEAN SQUARE (RMS) OPERATING VOLTAGE ALL CONDUCTORS; Surface

Treatment Document and Classification: ASTM B298 ASSN STD SINGLE TREATMENT RESPONSE CORE CONDUCTOR ALL CONDUCTORS. 20 specifications are documented in the U.S. Government catalog.

Is NSN 6145-01-059-3704 hazardous material?

No hazard code in the DLA record (HMIC N). Hazard information on this page is shown exactly as it appears in the DLA record.

SOURCES

U.S. Government catalog: edition PUBLOGDVD v12.0.0 (OCT 2026), edition date 2026-10-01, retrieved 2026-10-16.
U.S. Government catalog: edition PUBLOGDVD v12.0.0 (OCT 2026), edition date 2026-10-01, retrieved 2026-10-18.

PartsTable — the parts reference. Every fact cited to its source.
partstable.com/parts/6145-01-059-3704

✓ Data cited from the U.S. Government catalog; commercial cross-references from OEM and certified industry sources.
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