



INDUSTRIAL

Inventing *the Future* of Wire and Cable



Exar[®] 150 UL 3265 125°C - 150V CSA AWM

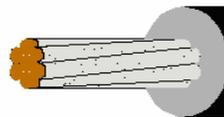
Exar[®] 150 is the premium heat-defying cable in its class. Its irradiation cross-linked polymeric insulation possesses remarkable mechanical, flame resistance and electrical properties. Exar 150 processes extremely well on the latest high speed cut and strip machines. Processing costs are reduced by avoiding problems such as solder iron shrink-back, insulation creeping and poor abrasion resistance. This product has unusually high chemical resistance including many potting compounds, toners and solvents. Save money by avoiding costly scrap and rework.

Benefits and Features

- UL/CSA AWM 125°C – 150V
- Rated for Class B
- Suitable for most Class F or H systems
- Cold temperature performance to -65°C
- Highly cut-through and abrasion resistant
- IEE 383 Flame Rating
- Easier stripping and processing
- RoHS Compliant

Applications

- Including but not limited to:
- Electric Motors
 - Coil Winding
 - Electrical Coils
 - Transformers
 - Thermal Sensors
 - Printers
 - Fax Machines
 - Lighting Devices
 - Appliances
 - Electronic Devices
 - Heaters
 - Thermal Protectors
 - Copiers
 - Switchboard



Champlain Cable Corporation

| Part Number | Standard Conductors Tin Copper | Nom. Dia of Conductor | | Insulation Thickness | | Nom. OD | | Finished Weight (lbs/mft) | Ampacity |
|----------------|-----------------------------------|-----------------------|------|----------------------|-----|---------|------|---------------------------|----------|
| | | in. | mm. | in. | mm. | in. | mm. | | |
| 3265-28/XX-B0 | 28 (7/36) | .015 | .38 | .010 | .25 | .036 | 0.91 | 1.10 | 1 |
| 3265-26/XX-A0 | 26 (1/26) | .015 | .38 | .010 | .25 | .038 | 0.97 | 1.32 | 3 |
| 3265-26/XX-B0 | 26 (7/34) | .019 | .48 | .010 | .25 | .040 | 1.02 | 1.49 | 3 |
| 3265-26/XX-E0 | 26 (19/38) | .020 | .51 | .010 | .25 | .040 | 1.02 | 1.55 | 3 |
| 3265-24/XX-A0 | 24 (1/24) | .020 | .51 | .010 | .25 | .042 | 1.07 | 1.86 | 7 |
| 3265-24/XX-B0 | 24 (7/32) | .024 | .61 | .010 | .25 | .045 | 1.14 | 2.09 | 7 |
| 3265-24/XX-E0 | 24 (19/36) | .024 | .61 | .010 | .25 | .045 | 1.14 | 2.14 | 7 |
| 3265-22/XX-A0 | 22 (1/22) | .025 | .64 | .010 | .25 | .047 | 1.19 | 2.68 | 14 |
| 3265-22//XX-B0 | 22 (7/30) | .030 | .76 | .010 | .25 | .051 | 1.26 | 3.00 | 14 |
| 3265-22/XX-E0 | 22 (19/34) | .031 | .79 | .010 | .25 | .052 | 1.32 | 3.12 | 14 |
| 3265-20/XX-A0 | 20 (1/20) | .032 | .81 | .010 | .25 | .054 | 1.37 | 3.97 | 18 |
| 3265-20/XX-B0 | 20 (7/28) | .038 | .97 | .010 | .25 | .059 | 1.50 | 4.45 | 18 |
| 3265-20/XX-E0 | 20 (19/32) | .038 | .97 | .010 | .25 | .060 | 1.52 | 4.67 | 18 |
| 3265-18/XX-A0 | 18 (1/18) | .040 | 1.02 | .010 | .25 | .062 | 1.58 | 5.93 | 25 |
| 3265-18/XX-B0 | 18 (7/.0152) | .045 | 1.14 | .010 | .25 | .066 | 1.67 | 6.13 | 25 |
| 3265-18/XX-D0 | 18 (16/30) | .045 | 1.14 | .010 | .25 | .066 | 1.67 | 6.05 | 25 |
| 3265-16/XX-F0 | 16 (26/30) | .058 | 1.47 | .010 | .25 | .078 | 1.98 | 9.42 | 31 |

* Ampacity 150°C rated single-insulated conductor in free air at 40°C ambient air temperature.

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| PROPERTIES | EXAR® 150 | |
|---|----------------------|-----------------|
| Approvals / Listings: | | |
| UL | STYLE 3265 | |
| CSA | AWM 150°C 300V | |
| Physical: * | | |
| Temperature Rating | 125 150°C | |
| Voltage Rating (Vrms) | 300V | |
| Flexibility - 7 days @ 180 °C | Passes | |
| Cold Bend - 4h @ -65°C | Passes | |
| Deformation | 18% | |
| Shore "A" Hardness | 95 | |
| Shore "D" Hardness | 42 | |
| Bend Radius | 3 X overall diameter | |
| Tensile Strength: * | | |
| Unaged | 2000 PSI | |
| Retention after 7 days @ 180 °C | Passes (100%) | |
| Elongation: * | | |
| Unaged | 250% | |
| Retention after 7 days @ 180 °C | 95% | |
| Flame Test: * | | |
| UL VW-1 | Passes | |
| IEEE Std. 383-1974 | Passes | |
| Chemical Resistance: | | |
| Acetone | swell@23°C/24h | 5-10% |
| Acid – H2SO4 S.G. 1.260 5% | swell@23°C** | <1% |
| Engine Oil – ASTM D-471 IRM-902 | swell@50°C** | 1.80% |
| Benzene | swell@23°C/24h | Not recommended |
| Epoxy | swell@23°C/24h | <5% |
| Gasoline – ASTM D-471 Fuel C | swell@23°C** | <1% |
| Methanol | swell@23°C** | <1% |
| Toluene | swell@23°C** | Not recommended |
| Xylene | swell@23°C** | Not recommended |
| Electrical: * | | |
| Dielectric Constant | | 3.1 |
| Dielectric breakdown strength (Vrms) | | 12,000 |
| Oxygen Index: | | 24 |
| Gamma Radiation Resistance – Total: | | |
| Integral dose (Cobalt 60 @ a rate of less than 1 megarad/hr.) | | 200 megarads |

* Properties are tested to UL 758 and UL 1581.

** Percent swell SAE J-1128 TXL

We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purpose. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products

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