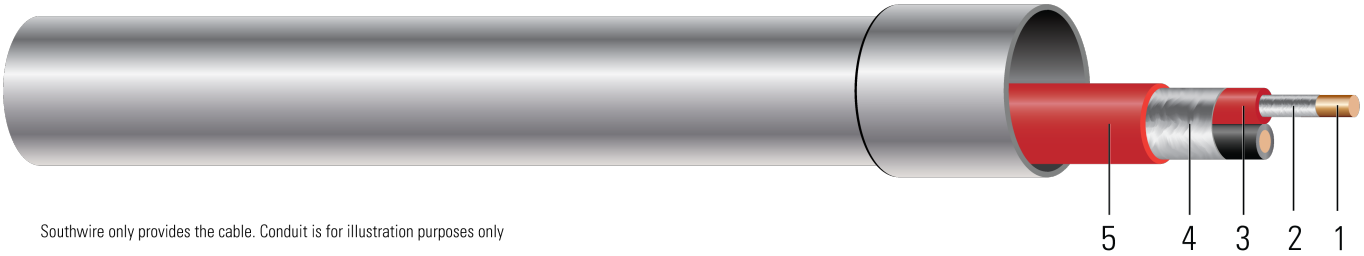
# Circuit Defender™ 2 Hour Rated Circuit Integrity Shielded

300V, 90°C, Shielded, UL Certified and listed Two-Hour Fire Resistive Fire Alarm Power Limited Cables




Southwire only provides the cable. Conduit is for illustration purposes only

Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** 18, 16 or 14 AWG solid bare oxygen-free copper (OFC) or oxygen-free high thermal conductivity (OFHC)
2. **Tape:** Mica
3. **Insulation:** Silicone Rubber, Color: black and red
4. **Shield:** 100% coverage aluminum/polyester foil shield with a drain wire
5. **Jacket:** PVC, Color: red

## APPLICATIONS AND FEATURES:

Circuit Defender™ cables have been qualified and listed to the demanding requirements of UL 2196 and CAN/ULC-S139 Test for Fire Resistive Cables, and are UL listed Types FPLR/CMR and CSA Certified FAS. Circuit Defender™ Cables meet various industry code requirements (NFPA 70, NFPA 101, and NFPA 502) for Fire Resistance according to UL 2196 when selected and installed per applicable codes including federal, state, and local and municipal rules, laws, and regulations.

## SPECIFICATIONS:

- UL 1424 Cables for Power-Limited Fire-Alarm Circuits
- CSA C22.2 No.208 FAS
- NFPA 70, NFPA 101, and NFPA 502
- UL Listed File #E75610 & #E118871
- UL 2196 and CAN/ULC-S139, UL Electrical Circuit Integrity System #44 (FHIT/7 44)
- UL 444 Communications Cables (22 AWG - 16 AWG)
- RoHS-3 Complies with Latest Directive

## SAMPLE PRINT LEGEND:

SOUTHWIRE Circuit Defender™ E75610 X/C # AWG SHIELDED FPLR/CMR/ 90C - R26267 FRR 2-HR (FHIT/7 44) UL 2196 & ULC S139 MAX 72V --- CSA LL90458 FAS/300V


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## Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insulation Color | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Jacket Color |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | No. | strands | inch | | mil | mil | inch | lb /1000ft | Ω /1000ft | Ω /1000ft | |
| 16 AWG | | | | | | | | | | | | |
| SC5002-2F | 16 | 2 | Solid | 0.050 | BK, RD | 30 | 25 | 0.364 | 56 | 4.181 | 5.037 | RED |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.


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