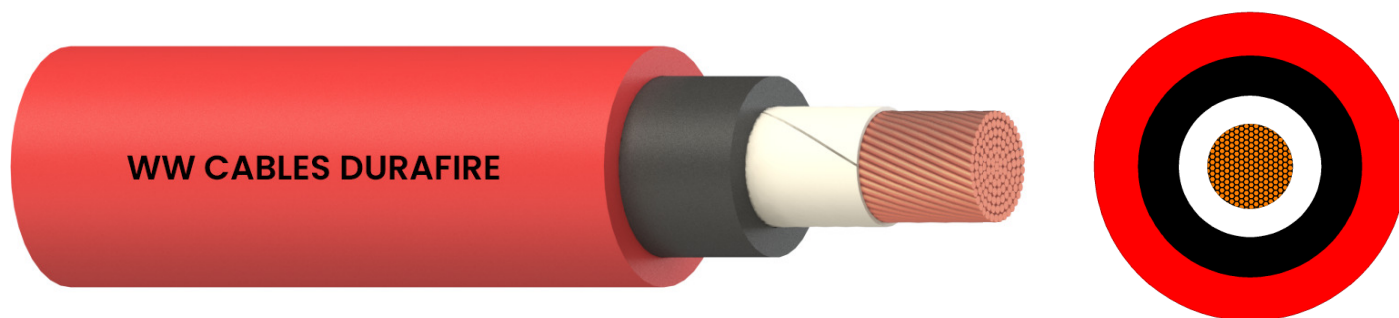




## 1C X-HF-110 Insulated Fire Rated Cables 0.6/1kV, Flexible Cu, LSZH, 110°C



Note: The above drawing is for representation purpose only.

### Description

Conductor:  
Fire Barrier:  
Insulation:  
Sheath:

Class 5 Flexible Plain Annealed Copper  
Mica Tape  
Low Smoke Zero Halogen X-HF-110  
Low Smoke Zero Halogen HFS-110-TP

### Core Identification

Black

### Sheath Colour

Red

### Technical Data

Voltage Rating:  
Operating Temperature:  
Short Circuit Temperature:

0.6/1kV  
-40°C to +110°C  
250°C for 5 sec

### Standards Compliance

AS/NZS 3013 (WS52W)  
AS/NZS 1125  
AS/NZS 1660

AS/NZS 5000.1  
AS/NZS 3808

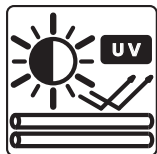
### Characteristics



FIRE RATED



FLAME RETARDANT



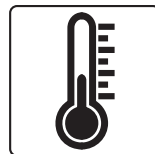
UV RESISTANT



LOW SMOKE



HALOGEN FREE



-40°C ~ +110°C



FLEXIBLE

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## 1C X-HF-110 Insulated Fire Rated Cables 0.6/1kV, Flexible Cu, LSZH, 110°C

### Physical & Electrical Characteristics

| WWC Product Code | Conductor Size (mm <sup>2</sup> ) | Conductor Diameter (mm) | Insulation Thickness (mm) | Approx. Overall Diameter (mm) | Min. Bending Radius (mm) |                    | Approx. Weight (kg/km) |
|------------------|-----------------------------------|-------------------------|---------------------------|-------------------------------|--------------------------|--------------------|------------------------|
|                  |                                   |                         |                           |                               | During Installation      | After Installation |                        |
| 7816HFSMICA-FLEX | 16                                | 5.4                     | 0.7                       | 10.9                          | 96                       | 72                 | 249                    |
| 7825HFSMICA-FLEX | 25                                | 6.9                     | 0.9                       | 12.8                          | 113                      | 84                 | 358                    |
| 7835HFSMICA-FLEX | 35                                | 8.6                     | 0.9                       | 14.5                          | 128                      | 96                 | 462                    |
| 7850HFSMICA-FLEX | 50                                | 10.4                    | 1.0                       | 16.6                          | 146                      | 110                | 630                    |
| 7870HFSMICA-FLEX | 70                                | 11.7                    | 1.1                       | 18.2                          | 160                      | 120                | 837                    |
| 7895HFSMICA-FLEX | 95                                | 13.5                    | 1.1                       | 20.2                          | 178                      | 133                | 1088                   |
| 7812HFSMICA-FLEX | 120                               | 15.4                    | 1.2                       | 22.4                          | 197                      | 148                | 1356                   |
| 7815HFSMICA-FLEX | 150                               | 16.4                    | 1.4                       | 23.9                          | 210                      | 158                | 1658                   |
| 7818HFSMICA-FLEX | 185                               | 18.3                    | 1.6                       | 26.4                          | 232                      | 174                | 2034                   |
| 7824HFSMICA-FLEX | 240                               | 20.8                    | 1.7                       | 29.3                          | 258                      | 193                | 2598                   |
| 7830HFSMICA-FLEX | 300                               | 23.2                    | 1.8                       | 32.0                          | 282                      | 211                | 3197                   |
| 7840HFSMICA-FLEX | 400                               | 29.2                    | 2.0                       | 38.9                          | 342                      | 257                | 4211                   |
| 7805HFSMICA-FLEX | 500                               | 32.2                    | 2.2                       | 42.5                          | 374                      | 281                | 5217                   |
| 7863HFSMICA-FLEX | 630                               | 35.5                    | 2.4                       | 46.5                          | 409                      | 307                | 6554                   |

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| Conductor Size (mm <sup>2</sup> ) | +Current-carrying capacity (A) |                 |                    | Maximum D.C. Resistance of conductor at 20°C (Ω/km) | Reactance at 50Hz (Trefoil) (Ω/km) |
|-----------------------------------|--------------------------------|-----------------|--------------------|-----------------------------------------------------|------------------------------------|
|                                   | In Air Touching Flat           | In Air Enclosed | In Ground Enclosed |                                                     |                                    |
| 16                                | 105                            | 91              | 97                 | 1.21                                                | 0.101                              |
| 25                                | 139                            | 121             | 125                | 0.780                                               | 0.0973                             |
| 35                                | 172                            | 148             | 151                | 0.554                                               | 0.0930                             |
| 50                                | 217                            | 190             | 188                | 0.386                                               | 0.0901                             |
| 70                                | 273                            | 234             | 229                | 0.272                                               | 0.0869                             |
| 95                                | 329                            | 277             | 268                | 0.206                                               | 0.0849                             |
| 120                               | 390                            | 331             | 316                | 0.161                                               | 0.0828                             |
| 150                               | 450                            | 378             | 357                | 0.129                                               | 0.0830                             |
| 185                               | 516                            | 438             | 404                | 0.106                                               | 0.0821                             |
| 240                               | 620                            | 538             | 481                | 0.0801                                              | 0.0808                             |
| 300                               | 714                            | 612             | 542                | 0.0641                                              | 0.0800                             |
| 400                               | 855                            | 757             | 648                | 0.0486                                              | 0.0788                             |
| 500                               | 990                            | 864             | 729                | 0.0384                                              | 0.0780                             |
| 630                               | 1154                           | 993             | 828                | 0.0287                                              | 0.0777                             |

+Based on trefoil formation, ambient air temperature of 40°C, soil temperature of 25°C, burial depth of 0.5m and soil thermal resistivity of 1.2K.m/W.

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