

Application

- ✓ Wire harness of low-tension electric circuits for automobiles.
- ✓ Used in motorcycles and other motor vehicles for starting, charging, lighting, signal and instrument panel circuits.
- ✓ Especially used for circuits requiring heat resistance.

Product Construction

- ✓ Conductor : Soft-annealed electrolytic copper E-Cu ETP1 according to JIS C 3102, bare conductor construction according to JASO D 608:2014
- ✓ Insulation : Electron beam cross linked polyethylene
- ✓ Colour : As per customer order.
- ✓ Single core

Technical Data

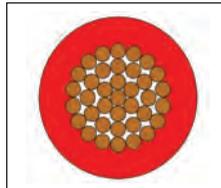
- ✓ Temperature Range : - 40°C to +120°C (3000 Hours)
- ✓ Standard : JASO D 608: 2014
- ✓ Test Voltage : 1 kV
- ✓ A : Low tension cables for automobiles
- ✓ E : Polyethylene insulated
- ✓ X : Electron beam cross linked
- ✓ f : Extra flexible conductor
- ✓ Conductor Resistance: IEC 60228/BS 6360

Features

- ✓ Flame retardant
- ✓ Highly resistant against acids, lyes, petrol and diesel.
- ✓ Extra Flexible conductors with electron beam cross linked polyethylene thin wall insulation for smaller diameter and lesser weight.
- ✓ Excellent flexibility.
- ✓ Heat resistant.

Automotive Cables **AEX f**

2D View



| Approvals | Accreditations | Certifications |
|-----------|----------------|----------------|
| | | |
| | | |
| | | |
| | | |

| Part Number | Conductor Construction | | | | Insulation Wall Thickness Nom. | Cable | | | Max. Conductor Resistance at 20°C | Current Carrying Capacity | Standard Length* |
|-------------|------------------------|----------------|------------------------------|----------------------------|--------------------------------|------------------|------|----------------|-----------------------------------|---------------------------|------------------|
| | Nominal Cross-Section | No. of Strands | Diameter of Single wire max. | Conductor Diameter Approx. | | Overall Diameter | | Weight Approx. | | | |
| | | | | | | Nom. | Max. | | | | |
| 81406XX* | 0.5 | 20 | 0.18 | 1.0 | 0.5 | 2.0 | 2.2 | 10 | 36.7 | 16 | 500 |
| 81408XX | 0.75 | 30 | 0.18 | 1.2 | 0.5 | 2.2 | 2.4 | 13 | 24.4 | 21 | 500 |
| 81412XX | 1.25 | 50 | 0.18 | 1.5 | 0.6 | 2.7 | 2.9 | 18 | 14.7 | 29 | 500 |
| 81414XX | 2 | 37 | 0.26 | 1.8 | 0.6 | 3.0 | 3.3 | 27 | 9.50 | 37 | 500 |
| 81455XX | 15 | 19/9 | 0.32 | 5.3 | 1.1 | 7.5 | 8.0 | 166 | 1.37 | 129 | 500 |
| 81456XX | 20 | 19/13 | 0.32 | 6.5 | 1.1 | 8.7 | 9.3 | 215 | 0.946 | 162 | 500 |
| 81457XX | 30 | 19/19 | 0.32 | 7.8 | 1.4 | 10.6 | 11.3 | 320 | 0.647 | 204 | 500 |
| 81458XX | 40 | 19/26 | 0.32 | 9.1 | 1.4 | 11.9 | 12.6 | 420 | 0.473 | 246 | 500 |
| 81434XX | 50 | 19/32 | 0.32 | 10.1 | 1.6 | 13.3 | 14.1 | 520 | 0.384 | 287 | 500 |
| 81435XX | 60 | 19/39 | 0.32 | 11.1 | 1.6 | 14.3 | 15.1 | 620 | 0.315 | 328 | 500 |
| 81459XX | 85 | 19/56 | 0.32 | 13.1 | 2.0 | 17.1 | 18.1 | 895 | 0.220 | 422 | 500 |
| 81439XX | 100 | 19/71 | 0.32 | 14.9 | 2.0 | 18.9 | 19.9 | 1105 | 0.173 | 500 | 500 |

Note : XX* : Please add last two digits in the part number as per the colour code given hereunder replacing XX while ordering.

| | | | | | | | | | | |
|----------------|-------------|---------------|--------------|--------------|-------------------|---------------|--------------|-------------|-------------|-------------|
| Red - 01 | Yellow - 02 | Blue - 03 | Black - 04 | Green - 05 | Yellow-Green - 06 | Grey - 07 | Brown - 08 | White - 09 | Orange - 10 | Violet - 11 |
| Chocolate - 12 | Tan - 13 | Charcoal - 14 | LT Blue - 15 | DK Grey - 16 | LT Green - 17 | DK Green - 18 | DK Blue - 19 | Purple - 20 | Pink - 21 | |

- ✓ * Other length as per Customer order.
 - ✓ Current Carrying capacity given is for the maximum conductor operating temperature of 120°C and ambient air temperature of 40°C.
- ** We have obtained various approvals, accreditations, and certifications — some of which may not be relevant to this catalog.



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