

3805392	<b>PRODUCT DATA SHEET</b>	
Valid from: 03.OCT.2024	<b>LAPP Cu/X-HF-90/HFS-90-TP 0.6/1kV BK</b>	

<https://lappapac.lappgroup.com>

## 1. Type

Cu/X-HF-90/HFS-90-TP 0.6/1kV

## 2. Application

AS/NZS 5000.1 standard cables are used for mains, submains and subcircuit power distribution including those enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage. Also available with reduced Earth core.

## 3. Reference Standard

3.1. AS/NZS 5000.1

## 4. Cable Construction

- 4.1. Conductor : Fine wire strands of bare copper wire acc. to AS/NZS 1125 Class 5
- 4.2. Core Insulation : Halogen free compound X-HF-90 acc. to AZ/NZS 3808
- 4.3. Core Identification : 3 Core – Red, Black, GN/YE  
4 Core – Red, White, Blue GN/YE  
5 Core – Red, White, Blue, Black, GN/YE
- 4.4. Binder Tape : Suitable tape wherever necessary
- 4.5. Sheath : Halogen free compound HFS-90-TP acc. to AZ/NZS 3808
- 4.6. Sheath Colour : Black, Similar RAL 9005

## 5. Technical Data

- 5.1. Rated Voltage  $U_0/U$  : 0.6/1kV
- 5.2. Test Voltage : Core/Core: 3500 V AC
- 5.3. Min. Bending Radius : 6 x D for conductor sizes 6mm<sup>2</sup> and below  
8 x D for conductor sizes 10mm<sup>2</sup> and above
- 5.4. Temperature Range : Fixed installation: -25°C to +90°C
- 5.5. Flammability : acc. to AS/NZS 1660.5.6
- 5.6. Smoke Density : acc. to AS/NZS 1660.5.2
- 5.7. Halogen Free : acc. to AS/NZS 1660.5.4
- 5.8. UV-resistance : acc. to ISO 4892-2 method A

## 6. Identification

U278 ←5→ LAPP® Cu/X-HF-90/HFS-90-TP ELECTRIC CABLE 0.6/1 kV FIXED APPLICATIONS ONLY ←5→ D←10→CE  
←10→ Artnr. Year/Week MM

### Marking (Drucktext):

- ⊗ Can be indicated as a symbolical point or symbolical circle if the font size is too small
- Artnr. Part Number
- D Dimension (e.g. 3 G 1.5 or 4 x 2 x 0.34)
- ←10→ Distance at least 10 mm (*the blue arrow with the 10-mm-indication is not to be printed*)
- ←5→ Distance at least 5 mm (*the blue arrow with the 5-mm-indication is not to be printed*)
- Year/Week Manufacturing Year and Week (e.g. 2024/07wk. or 2024/17wk.)

### Additional printing:

Each additional defined printing consists of:

**MM** Length marking (0000)

Colour of marking **White**

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ref.: INQ10056

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## 7. General Requirements

PWIS: All materials used for the cable during manufacturing shall be free of Paint-Wetting Impairment Substances, e.g. silicone.

RoHS: All homogeneous materials of all articles must not contain the substances of Annex II of the European Directive 2011/65/EU (RoHS) in excess of the concentration limits listed therein. Exemptions are allowable for the applications listed in Annex III and IV of the same Directive.

REACH: All materials used in the manufacturing process of the product are subject to the EC Regulation No. 1907/2006 regarding Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). If substances based on the current Candidate List are used, they shall be listed with their designation and their concentration.

## 8. Tests

acc. to AS/NZS 5000.1

## 9. Dimensional Data

Article Number	No. of core(s) and conductor cross-section mm <sup>2</sup>	Approx. Outer Diameter mm	Approx. Cable Weight Kg/Km
3805392	3 G 1.5	10.5	149
3805393	4 G 1.5	11.2	176
3805423	5 G 1.5	12.1	205
3805394	3 G 2.5	11.3	190
3805395	4 G 2.5	12.2	228
3805396	5 G 2.5	13.1	268
3805397	3 G 4	12.7	256
3805398	4 G 4	13.8	311
3805399	5 G 4	14.9	369
3805400	3 G 6	13.9	335
3805401	4 G 6	15.1	411
3805402	5 G 6	16.4	500
3805403	3 G 10	16.1	486
3805404	4 G 10	17.5	603
3805405	5 G 10	19.1	736
3805406	3 G 16	18.2	688
3805407	4 G 16	20.0	863
3805408	5 G 16	21.8	1058
3805409	4 G 25	24.7	1344
3805410	5 G 25	27.2	1654
3805411	4 G 35	28.2	1843
3805412	5 G 35	31.1	2271
3805413	4 G 50	33.9	2652
3805414	5 G 50	37.5	3288
3805415	4 G 70	39.3	3610
3805416	5 G 70	43.9	4513
3805417	4 G 95	44.9	4637
3805418	5 G 95	49.4	5710

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