

2 Socket Base Filters & Impedance Matching Units

P-0941-003/4 (Impedance Matching units), P-0941-005/6 (Filters)

www.DataSheet4U.com



P-0941-003

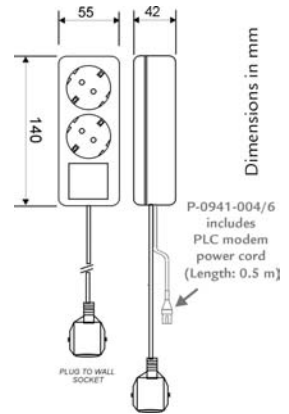
Features

- Allows to increase the impedance of the line, improving PLC signal transmission performance (impedance matching units: P-0941-003/4).
- Removes interference and noise from noise sources that may reduce PLC networks performance (single phase filters: P-0941-005/6).
- P-0941-004/6 includes a power cord for PLC modem supply.

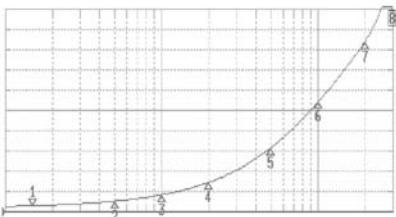
Electrical parameters

| | P-0941-003 | P-0941-004 | P-0941-005 | P-0941-006 |
|--|------------|----------------------|------------|------------|
| Rated voltage | | 250 V | | |
| Rated frequency | | 50-60 Hz | | |
| Rated current (at rated temp.) | | 10 A @ 25°C | | |
| Climatic category (DIN 40040) | | IQF | | |
| Test Line - Neutral voltage Line/Neutral-PE | | 1700 Vdc 1800 Vac | | |
| La | | 7.4uH | | |
| Cx | | N/A | | 1 F |
| R | | N/A | | 470 K |
| Cable length | N/A | 1,5 m | N/A | 1,5 m |

Dimensions

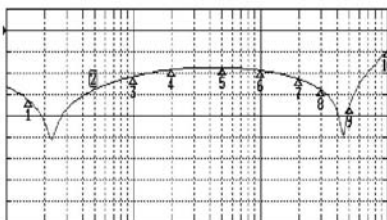


Impedance response



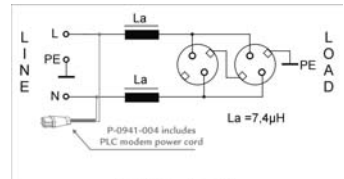
| Freq. (MHz) | Impedance (Ω) | |
|-------------|---------------|---------|
| 1 | 0.15 | 5.117 |
| 2 | 0.5 | 16.344 |
| 3 | 1 | 32.075 |
| 4 | 2 | 62.785 |
| 5 | 5 | 147.902 |
| 6 | 10 | 260.888 |
| 7 | 20 | 410.611 |
| 8 | 30 | 538.223 |

Insertion losses

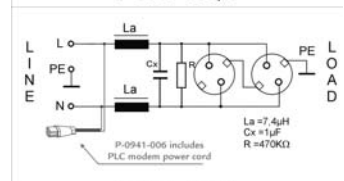


| Freq. (MHz) | Insertion losses (dB) | |
|-------------|-----------------------|---------|
| 1 | 0.15 | -32.752 |
| 2 | 0.5 | -27.888 |
| 3 | 1 | -21.461 |
| 4 | 2 | -18.282 |
| 5 | 5 | -17.382 |
| 6 | 10 | -18.679 |
| 7 | 20 | -22.810 |
| 8 | 30 | -27.842 |
| 9 | 50 | -35.816 |
| 10 | 100 | -9.390 |

Electrical diagram



P-0941-003/4



P-0941-005/6