



■ HF 400 ALL-PE 50 OHM LOW LOSS TGK COAX - HIGH PERFORMANCE BROADBAND LOW LOSS 50 OHM COAXIAL COMMUNICATION CABLE DESIGNED FOR USE IN WIRELESS APPLICATIONS IN ACCORDANCE TO: IEC 60754-1 IEC 60754-2 IEC 61034-2

## MECHANICAL DATA

|          |                        |  |              |                          |
|----------|------------------------|--|--------------|--------------------------|
| <b>A</b> | <b>INNER CONDUCTOR</b> | PLAIN COPPER CLAD ALUMINIUM  | .....        | <b>ø 2,74 mm</b>         |
| <b>B</b> | <b>DIELECTRIC</b>      | GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE                               |              | <b>ø 7,25 ± 0,18 mm</b>  |
| <b>C</b> | <b>SHIELD</b>          | ALL + PET + ALL ADHESIVE TAPE  |              | <b>h. 27 mm</b>          |
|          |                        | - COVERAGE   | .....        | <b>100%</b>              |
| <b>D</b> | <b>BRAID</b>           | TINNED COPPER  | .....        | <b>192 x 0,15 mm</b>     |
|          |                        | - COVERAGE   | .....        | <b>90%</b>               |
| <b>E</b> | <b>SHEATH</b>          | CARBON BLACK POLYETHYLENE  | .....        | <b>ø 10,30 ± 0,18 mm</b> |
|          | - COLOUR               | <b>BLACK - RAL 9004</b>  |              |                          |
|          | - PRINTING             | <b>## METER ## HF 400 PE HIGH PERFORMANCE LOW LOSS TGK COAX 50 OHM</b> |              |                          |
|          |                        | <b>2,74 / 7,25 / 10,30</b>   | <b>CE 58</b> | <b>WEEK/YEAR</b>         |

### MINIMUM BENDING RADIUS ( mm )

|            |                 |
|------------|-----------------|
| - SINGLE   | ø EXTERNAL X 5  |
| - REPEATED | ø EXTERNAL X 10 |

### TEMPERATURE RANGE

-40 °C / +75 °C

### CABLE WEIGHT ( Kg/Km )

|           |       |
|-----------|-------|
| - COPPER  | 56,0  |
| - PLASTIC | 44,2  |
| - TOTAL   | 103,5 |

## ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE @ 200 MHz**      **50 ± 1,5 Ohm**

**CAPACITANCE**      80 pF/m 84%

**VELOCITY RATIO**

### RESISTANCE

|                  |            |
|------------------|------------|
| - INNER CONDUCT. | 4,7 Ohm/Km |
| - BRAID SHEATH   | 5,0 Ohm/Km |

### TENSION

|                 |        |
|-----------------|--------|
| - SPARK TESTING | 8,5 kV |
|-----------------|--------|

### ATTENUATIONS dB/100 m.

|     |     | <b>dB</b> | <b>W</b> |
|-----|-----|-----------|----------|
| 5   | MHz | 1,0       | 8202     |
| 10  | MHz | 1,3       | 5800     |
| 30  | MHz | 2,1       | 3349     |
| 50  | MHz | 2,8       | 2594     |
| 150 | MHz | 4,7       | 1498     |
| 220 | MHz | 5,7       | 1237     |

### MAX. POWER RATING W

|       |     | <b>dB</b> | <b>W</b> |
|-------|-----|-----------|----------|
| 450   | MHz | 8,4       | 865      |
| 600   | MHz | 9,8       | 749      |
| 800   | MHz | 11,4      | 648      |
| 900   | MHz | 12,1      | 611      |
| 10 0  | MHz | 12,8      | 580      |
| 150 0 | MHz | 16,0      | 474      |

|       |     | <b>dB</b> | <b>W</b> |
|-------|-----|-----------|----------|
| 180 0 | MHz | 17,7      | 432      |
| 20 0  | MHz | 18,9      | 410      |
| 250 0 | MHz | 21,1      | 367      |
| 30 0  | MHz | 23,4      | 335      |
| 520 0 | MHz | 32,7      | 254      |
| 580 0 | MHz | 34,7      | 241      |

### STRUCTURAL RETURN LOSS dB

|             |     |     |             |     |     |
|-------------|-----|-----|-------------|-----|-----|
| 30 ÷ 450    | MHz | >27 | 2000 ÷ 3000 | MHz | >22 |
| 450 ÷ 1000  | MHz | >26 | 3000 ÷ 4000 | MHz | >21 |
| 1000 ÷ 2000 | MHz | >23 | 4000 ÷ 5800 | MHz | >20 |

### SCREENING EFFECTIVENESS dB

|             |     |     |
|-------------|-----|-----|
| 100 ÷ 900   | MHz | >95 |
| 900 ÷ 2000  | MHz | >85 |
| 2000 ÷ 3000 | MHz | >75 |



■ Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden.  
 ■ Wir behalten uns das Recht vor, Änderungen ohne vorherige Ankündigung vorzunehmen.  
 ■ Alle anderen Größen oder andere Ausführungen auf Anfrage

■ The above values correspond to the manufacturer's specifications and are not guaranteed.  
 ■ We reserve the right to change details without notice.  
 ■ Any other sizes or any other designs available on request.