

# REGAL WEALTH ENGINEERING LIMITED

ADD: SUZHOU REPRESENTATIVE OFFICE, 0203A1 1A SINGA PLAZA JINJIHU ROAD SUZHOU INDUSTRIAL PARK, P.R.CHINA

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## Technical Data Sheet

Mode Number: 14521

File Number: 2015-09-15-09

|   |  |
|---|--|
| <b>1. Name of cable:</b>                  | LAN Cable  |
| <b>2. P/N:</b>                            | CB14521  |
| <b>3. Designed of cable:</b>              |  |
| <b>3.1 Inner conductor:</b>               | Single Bare Copper $\varnothing 0.573\pm 0.005\text{mm}$ |
| <b>3.2 Insulation:</b>                    | HDPE   |
| <b>3.3 Insulation Dia:</b>                | $\varnothing 1.02\pm 0.05\text{mm}$                      |
| <b>3.4 Core colour:</b>                   | WH-BU /BU    WH-OG/OG<br>WH-GN /GN    WH-BN /BN          |
| <b>3.5 Two wires twisted to one pair:</b> |  |
| <b>3.6 Four pairs twisted to a qual :</b> |  |
| <b>3.7 Filler:</b>                        |  |
| <b>3.8 Jelly:</b>                         |  |
| <b>3.9 Rip wire:</b>                      |  |
| <b>4. First Jacket:</b>                   | PVC  |
| <b>4.1 Colour:</b>                        | White  |
| <b>4.2 Size:</b>                          | $\varnothing 6.8\pm 0.2\text{mm}$                        |
| <b>4.3 Wall thickness:</b>                | $\approx 0.8\text{mm}$                                   |
| <b>4.4 Second Jacket:</b>                 | PE   |
| <b>4.5 Colour:</b>                        | Black  |
| <b>4.6 Size:</b>                          | $\varnothing 7.5\pm 0.2\text{mm}$                        |
| <b>4.7 Wall thickness:</b>                | $\approx 0.3\text{mm}$                                   |
| <b>4.8 Printing:</b>                      | By request bargain                                       |
| <b>5. Electric data at 20°C:</b>          |  |
| <b>5.1 Conductor resistance:</b>          | $\leq 70.0\Omega/\text{KM}$                              |
| <b>5.2 Insulation resistance:</b>         | $\geq 5000\text{M}\Omega\cdot\text{KM}$                  |
| <b>5.3 Testing voltage:</b>               | wire/wire 50Hz1min=1.5KV                                 |

#### 5.4 Other Electric data:

| Frequency | Impedance | RL       | ATT      | NEXT     | ELFEXT   | PSNEXT   | PSELFEXT | SKW      | NVP |
|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----|
| Mhz       | ohm       | ≥dB/100M | ≤dB/100M | ≥dB/100M | ≥dB/100M | ≥dB/100M | ≥dB/100M | ≤ns/100M |     |
| 1         | 100±15    | 20.0     | 2.03     | 74.3     | 68.0     | 72.3     | 65.0     | ≤45      | 66% |
| 4         |           | 23.0     | 3.7      | 65.0     | 56.0     | 63.3     | 53.0     |          |     |
| 8         |           | 24.5     | 5.3      | 60.7     | 49.9     | 48.8     | 46.9     |          |     |
| 10        |           | 25.0     | 5.9      | 59.0     | 48.0     | 57.3     | 45.0     |          |     |
| 16        |           | 25.0     | 7.5      | 56.0     | 43.9     | 54.2     | 40.9     |          |     |
| 20        |           | 25.0     | 8.4      | 55.0     | 42.0     | 52.8     | 39.0     |          |     |
| 25        |           | 24.3     | 9.5      | 53.3     | 40.0     | 41.3     | 37.0     |          |     |
| 31.25     |           | 23.6     | 10.6     | 52.0     | 38.1     | 49.9     | 35.1     |          |     |
| 62.5      |           | 21.5     | 15.4     | 47.0     | 32.1     | 45.4     | 29.1     |          |     |
| 100       |           | 100±20   | 20.1     | 19.8     | 44.0     | 28.0     | 42.3     |          |     |
| 200       | 18.0      |          | 29.0     | 40.0     | 22.0     | 37.8     | 19.0     |          |     |
| 250       | 17.3      |          | 32.8     | 38.3     | 20.0     | 36.3     | 17.0     |          |     |

#### 6. Other requirement:

6.1 Permissible temperature:

-10°C----75°C

6.2 Packing:

305M/CTN

6.3 Test standard:

This Technical Data Sheet

Designed by Regal Wealth Engineering Ltd

2015-9-15