



A brand of the  
**Prysmian**  
Group

## Draka SF/UTP RS485 Signalcable

*IE SF/UTP 1x2xAWG20/1 cable with circuit integrity behavior*



### Application

Campus wiring, Riser applications, Horizontal backbone wiring, Building control systems, Intelligent fire alarm systems. Circuit integrity structured wiring alarm cable. RS485 (10Mbits)

### Construction

|                 |   |
|-----------------|---|
| Conductor       | bare copper wire, Ø 0.8 mm (AWG 20) 0.5mm <sup>2</sup>  |
| Insulation      | PE/Silicone Rubber 1, Ø PE 1.2mm and Silicone Rubber 1.9 mm                                       |
| Twisting        | 2 cores to the pair   |
| Cable lay up    | 1 pair to the core  |
| Fire protection | glass tape (if required)  |
| Screen          | Aluminium tape + tinned copper braid  |
| Sheath          | halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, Ø OD - 7 mm |

### Flame resistance

|                    |   |
|--------------------|---|
| Low Smoke:         | EN IEC 61034-2,   |
| Halogen Free:      | EN IEC 60754-1&2  |
| Flame Retardant:   | IEC 60332-1, IEC 60332-3-24, BS4066 part 3, UL 1581 VW 1: EC B2 |
| Circuit Integrity: | IEC60331 BS EN 50200 (IEC60331) >3 hours                        |





## Draka SF/UTP RS485 Signalcable

IE SF/UTP 1x2xAWG20/1 cable with circuit integrity behavior

### Mechanical properties

|                   |                     |            |    |
|-------------------|---------------------|------------|----|
| Temperature range | during operation    | -20 to +60 | °C |
|                   | during installation | 0 to +50   | °C |
| Bending radius    | without load        | ≥ 42       | mm |
|                   | with load           | ≥ 84       | mm |

### Electrical Properties

|                                 |                           |         |       |
|---------------------------------|---------------------------|---------|-------|
| Loop resistance                 |                           | ≤ 85    | Ω/km  |
| Braid resistance                |                           | ≤ 9.9   | Ω/km  |
| Resistance unbalance            |                           | ≤ 2     | %     |
| Insulation resistance           | (500 V) 1 minute          | ≥ 2000  | MΩ*km |
| Mutual capacitance              | at 800 Hz                 | nom. 60 | nF/km |
| Capacitance unbalance           | (pair/ground)             | ≤ 1600  | pF/km |
| Characteristic impedance        | (at 10) MHz               | 100±15  | Ohm   |
| Nominal velocity of propagation |                           | ca. 57  | %     |
| Test voltage (DC, 1 min)        | core/core and core/screen | 1000    | V     |
| Transfer impedance              | at 10 MHz                 | 5       | mΩ/m  |

### Technical data

| Product code | Cable type                | Outer diameter | Weight | Tensile force |
|--------------|---------------------------|----------------|--------|---------------|
|              |                           | mm             | kg/km  | N             |
| 4721P20344   | J-2Y/2G(St)CH 1x2x0.8 -10 | 7.5            | 58     | 100           |