



Cable structure

Fibre type: POF 980/1000
Fibre cladding: PE

Optical data

Refractive index core: 1,492
Refractive index cladding: 1,419
Numerical aperture: 0,5
Attenuation see table

Temperature range

Laying, min: -20°C
Laying, max: +80°C
Operating, min: -20°C
Operating, max: +80°C

| Designation | Outer sheath material | Outer sheath colour | Outer Ø ca. mm | Max. tensile force N | Min. stat. bending radius mm | Fibre attenuation | Oil-resistant | Acc. to DESINA | Weight kg/km | Part no. |
|------------------------------------|-----------------------|---------------------|----------------|----------------------|------------------------------|-------------------|---------------|----------------|--------------|--------------|
| I-V2Y 1P 980/1000 | PE | Black | 2,2 | 70 | 25,0 | 160A1 | no | no | 4,0 | 80532 |
| I-V2Y 2P 980/1000 | PE | Black | 2,2 x 4,4 | 140 | 25,0 | 160A1 | no | no | 8,0 | 80388 |
| I-V2Y11Y 1P 980/1000 | PUR | Violet | 5,8 | 400 | 30,0 | 230A1 | yes | yes | 30,0 | 81611 |
| I-V2Y11Y 2P 980/1000 | PUR | Violet | 6,0 | 400 | 31,0 | 230A1 | yes | yes | 36,0 | 80629 |
| I-V2Y11Y 2P 980/1000 | PUR | Violet | 6,0 | 400 | 31,0 | 230A1 | yes | yes | 36,0 | 81882 |
| I-V2Y11Y 4P 980/1000 | PUR | Violet | 7,1 | 400 | 45,0 | 230A1 | yes | yes | 65,0 | 80630 |
| I-V2Y11Y 2P 980/1000 + 2x1mm² Cu | PUR | Red | 7,8 | 200 | 70,0 | 230A1 | yes | no | 60,0 | 82032 |
| I-V2Y11Y 2P 980/1000 + 3x1.5mm² Cu | PUR | Red | 11,0 | 200 | 70,0 | 230A1 | yes | no | 132,0 | 82033 |

Application

HELUCOM® plastic-fibre cables are used in mechanical engineering, both in mobile and fixed applications. With different constructions, such as PUR outer sheaths, special strain relief components, hybrid construction with copper cores for power supply or only raw fibre cables, any possible fields of application are covered. Due to their solidity and their simple adjustability on site, the plastic-fibres (PMMA) are particularly suitable for applications where trouble-free data transmission is necessary under heavy-duty conditions.