

Product Description

Compatible with the international standardised SERCOS interface



Application range

- Plastic optical fibres for industrial use in the optical signal transmission at higher mechanical stress
- Compatible with the international standardised SERCOS interface IEC 61491 for communication between control and drives in digitally controlled machines
- Transmission lengths up to 70 m

Benefits

- Compatible with the international standardised SERCOS interface

Design

- The fibre material is made of polymethylmethacrylate (PMMA)
- A type with PE protective cover and PUR sheath (red), strain relief: longitudinal Aramide fibres, outer diameter: 3.6 mm
- Standard designation (PE-PUR): J-V2Y(ZN)11Y 1P980/1000
- A type with polyamide (PA) protective cover and polyurethane (PUR) sheath (red), strain relief: longitudinal Aramide fibres, outer diameter: 6 mm
- Standard designation (PA-PUR): J-V4Y(ZN)11Y 1P980/1000

Product features

- Polymer optical fibre (POF) in SIMPLEX version with outer sheath
- Outer sheath consists of a flame retardant polyurethane mixture and is resistance against oil, abrasion and microbes
- The polyurethane outer sheath is also halogen free, adhesion free and resistant against hydrolysis.



Cross-References

Accessories

Damage free cable bundles through: Mille-Tie™

Connectors, tools and further accessories on request

Technical Data

Dimensions

POF 980/1000/... μm

Fibre type

Step index fibre

Core material: Polymethylmetacrylate (PMMA)

Cladding material: Fluoropolymers

Optical values

Attenuation at 650 nm wavelength: 160 dB/km

Bandwidth-length product: 10 MHz x 100 m

Numerical aperture: 0.5±0.05

Range of temperature

SIMPLEX S PE-PUR -40°C to +70°C SIMPLEX S PA-PUR -40°C to +80°C

Permissible bending radius

SIMPLEX S PE-PUR Temporary: 30 mm Fixed installation: 50 mm SIMPLEX S PA-PUR Temporary: 30 mm Fixed installation: 50 mm

Permissible tensile force

SIMPLEX S PE-PUR Temporary: max. 250 N Fixed installation: max. 100 N SIMPLEX S PA-PUR Temporary: max. 400 N Fixed installation: max. 100 N

Article List

Part number	Article designation	Fibre type	Number of fibres	Outer diameter in mm max.	Weight kg/km
2185205	HITRONIC® POF SIMPLEX S PE-PUR	POF	1	3.6	11.2
2185204	HITRONIC® POF SIMPLEX S PA-PUR	POF	1	6.0	33.2

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

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