

Product Description



Application range

- These plastic optical fibres for industrial application are used for optical signal transmission when the required space is limited or where high flexibility is required.
- This highly flexible cable can also be used in the local network (LAN), computer periphery, as well as in the audio field.
- Transmission lengths up to 70 m

Design

- The fibre material is made of polymethylmethacrylate (PMMA)
- This fibre consists of 217 individual cores and is known as a Multicore-Stepindex-POF. This version offers high flexibility and very low bending attenuation.
- The protective cover /buffer tube directly over the step index fibre is made of black polyethylene (PE)
- This type of fibre also has a strain relief made of aramide fibres and an outer sheath of PUR (orange)
- Standard designation: J-V2Y(ZN)11Y 1P 980/1000 400A 10 (Simplex)

Product features

- 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 made of polymethylmethacrylate (PMMA)

Minimum bending radius

SIMPLEX Temporary: 15 mm Fixed installation: 15 mm

DUPLEX Temporary: 50 mm Fixed installation: 75 mm

Optical values

Bandwidth-length product: 10 MHz x 100 m Numerical aperture: SIMPLEX 0.47 DUPLEX 0.45

Range of temperature

-20 °C up to +70 °C

Permissible tensile force

Temporarily: 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
2185207	HITRONIC® POF SIMPLEX FD PE-PUR	POF	1	6.0	33.2
2185213	HITRONIC® POF DUPLEX FD PE-PUR	POF	2	7.4	60

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

Photographs are not to scale and do not represent detailed images of the respective products.