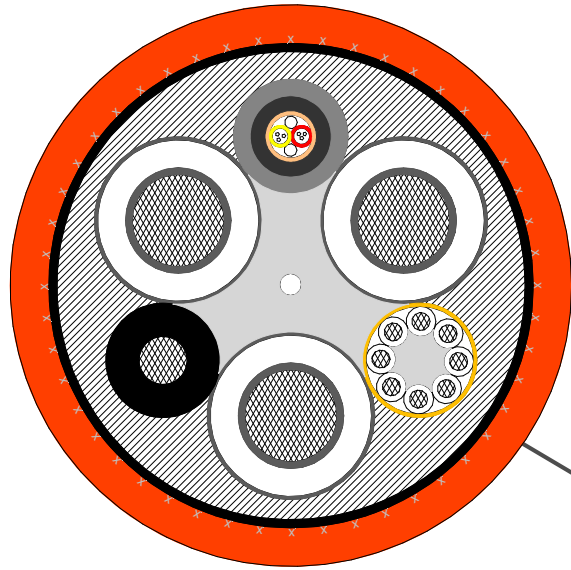


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**Design in line with DIN VDE 0250 part 813:  
Cables, wires and flexible cords for power installation - Trailing Cable**

<b>Main cores [3x50 mm<sup>2</sup>]</b>	Copper conductor, plain, flexible stranded, acc. to DIN EN / IEC 60228 class 5 triple extruded insulation, consisting of: <ul style="list-style-type: none"> <li>- inner semi-conductive stress control layer</li> <li>- elastomeric insulation of dielectric and thermal high graded, ozone-resistant RHEYCLEAN HV-EPR compound</li> <li>- outer semi-conductive insulation shield layer, easy strip (thermo strip); all three covers are applied and cross-linked in one process</li> </ul>
<b>Protective conductor [1x25 mm<sup>2</sup>]</b>	Copper conductor, plain, flexible stranded, acc. to DIN EN / IEC 60228 class 5; semi-conductive layer
<b>Pilot cores [(8x2.5)C]</b>	Conductor: plain copper, flexible stranded acc. DIN EN / IEC 60228 class 5 Insulation: elastomeric dielectric and thermal high graded, ozone-resistant hard grade ethylene-propylene-rubber (HEPR), compound acc. IEC50602-1, white cores with black no. 1 – 8 Screen: copper wire serving, covering approx. 80 %
<b>Optical fibre Stranding</b>	...E9/125 fibres see page 3 Three power cores laid-up over rubber cradle separator ( 3 ), screened control elements with the protective conductor and the OF-element in the interstices
<b>Inner sheath</b>	Synthetic rubber compound GM1b acc. to DIN VDE 0207 part 21
<b>Reinforcement</b>	Embedded braid made of synthetic threads with high tensile strength
<b>Outer sheath</b>	Heavy duty chlorinated rubber compound acc. to DIN VDE 0207 part 21, oil-resistant acc. DIN EN 60811-2-1, flame-retardant acc. DIN EN 60332-1-2, tear-resistant, with low abrasion, embossed marking: RHEYFIRM(RTS) R-(N)TSKCGEWTOEUS 3x50+1x25+(8x2.5)C+OFE12E9/125 6/10 kV   NEXANS   year

Nexans Deutschland GmbH  
Bonnenbroicher Str. 2-14, 41238 Mönchengladbach/Germany  
heinz-willi.hamacher@nexans.com Tel.: ++49 2166 27 21 76 Fax.: ++49 2166 27 27 81

Technical data, dimension and weights subject to change

**Technical data**

Outer diameter:	54 - 57 mm
Weight approx.:	4640 kg/km
Max. conductor resistance at 20 °C acc. DIN EN 60228:	0.386 Ω/km
Current-carrying capacity at 30 °C ambient temp.) <sup>1)</sup>	202 A on ground
Short-circuit current (80 – 250 °C) / 149 A/mm <sup>2</sup> :	1 s    7.5 kA 0.5 s   10.5 kA
Bending radius:	≥ 6 x cable-φ static ≥ 12 x cable-φ on drum ≥ 15 x cable-φ on deflection pulleys ≥ 20 x cable-φ for s-shaped track curves
Max. conductor temperature: Short-circuit temperature of conductor:	90 °C 250 °C
Permissible temperature on cable surface: - reeling application	-30 °C / +80 °C
Max. tensile strength:	3000 N
Max. permissible operating voltage U <sub>bmax</sub>	AC systems: 17 kV DC systems: 42.5 kV
Test voltage acc. DIN VDE 0250 part 813:	12 kV A.C.    18 kV D.C.

Correction factor for ambient temperatures other than 30 °C to be applied to the current-carrying capacities for cables in the air<sup>1)</sup> (permissible conductor temperature 90 °C):

10 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
1.15	1.08	1.00	0.91	0.82	0.71	0.58

Correction factor for reeled flexible cables<sup>1)</sup>:

No. of layers	1	2	3	4	5
Factor	0.80	0.61	0.49	0.42	0.38
Mono spiral reel	0.80				

<sup>1)</sup> DIN VDE 0298-4 – Application of cables and cords in power installations  
Part 4: recommended current-carrying capacity for sheathed and non sheathed cables for fixed wirings in and around buildings and for flexible cables and cords.

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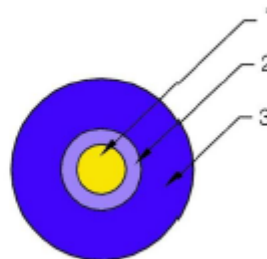
Optical fibre characteristics  
Colours of the fibres acc. ANSI/TIA/EIA 598-A

### Singlemode Fibre 9/125µm (OS2)

**SP 0000  
G652D**

#### Description and Applications

Singlemode fibre is optimized for long distances and high bit rate. The silica part is protected with a resistant 250 micron coating. This fibre can also be provided with a 900 micron coating when direct connectorisation is needed.



#### Characteristics

- Doped Silica Core
- Big core for Easy connection

#### Construction

- 1 : Core
- 2 : Cladding
- 3 : Coating

#### Nominal dimensions & technical parameters

	Characteristics	Singlemode 9/125 µm		
		1310 nm	1383 nm	1550 nm
Optical	Attenuation (dB/km)			
	• Nom.	≤0.35	≤0.33	≤0.20
	• Max.	≤0.40	≤0.40	≤0.28
	Applicative Length (m)			
	• 1 Gbps (LX/ZX)	5000		~ 70000
	• 10 Gbps (LR/ER)	10000		40000
	• 40 Gbps (LR4)	10000		NA
	• 100 Gbps (LR4/ER4)	10000		40000
	Attenuation uniformity (dB)	≤0.1		
	Zero Dispersion Wavelength (nm)	1310 ± 10		
Zero Dispersion Slope (ps/nm <sup>2</sup> .km)	≤ 0.090			
Polarization Mode Dispersion (ps/√km)	≤ 0.2			
Mode Field Diameter (1310 nm)	9.2 ± 0.4			
Mode Field Diameter (1550 nm)	10.4 ± 0.5			
Cable cut-off Wavelength (nm)	≤ 1260			
Chromatic Dispersion (1285-1330 nm) (ps/nm.km)	≤ 3.5			
Chromatic Dispersion (1550 nm) (ps/nm.km)	≤ 18			
Chromatic Dispersion (1625 nm) (ps/nm.km)	≤ 22			
Dimensions	Cladding Diameter (µm)	125 ± 1		
	Core Non Circularity (%)	< 6		
	Cladding Non Circularity (%)	< 2		
	Proof Test (%)	1.2		

**OPTICABLE**  
Parc Industriel de Frameries, Avenue de l'Europe - B-7080 Frameries - Belgium  
E-mail : [eeervice.opticable@nexans.com](mailto:eeervice.opticable@nexans.com)  
All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

E9/125 fibres acc.: Reference standard ITU-T G.652D

Nexans Deutschland GmbH  
Bonnenbroicher Str. 2-14, 41238 Mönchengladbach/Germany  
[heinz-willi.hamacher@nexans.com](mailto:heinz-willi.hamacher@nexans.com) Tel.: ++49 2166 27 21 76 Fax.: ++49 2166 27 27 81

Technical data, dimension and weights subject to change