



Sweden

SKOGSINDUSTRIERNAS
TEKNIK AB
Pulp and Paper Industries' Engineering Co

European edition.
Supersedes earlier
English edition

REPORT

SSG 5904E

Date
2003-06-01

Edition
2

Designation
TKI/TKE

Page
1(11)

Information within brackets
in this document refers to
local regulations

Fibre optics

Introduction

This report gives instructions and general recommendations in the field of fibre optics.

The instructions do not claim to be complete or comprehensive, but may provide support in project design, installation, enquiries and the selection of communication networks based on fibre optics.

Three principal areas must mainly be taken into account in the project design of optical fibre telecommunication systems. These are:

- transmission requirements (electric signals that are to be transmitted)
- selection of transmission equipment
- rating of cable networks

Contents

1 Advantages and disadvantages of fibre optics	6 Laying of optical cables
	6.1 In conduit above ground or underground
2 Suitable applications	6.2 On racks
	6.3 Underground
3 Costs	6.4 Other cable runs
	6.5 Splicing of optical cable
4 Fibres	6.6 Measuring
4.1 Fibre types	6.7 Cable termination
4.2 Fibre and primary coating	
4.3 Secondary coating	7 Service
4.4 Wavelength	7.1 Connectors
4.5 Bandwidth and attenuation	7.2 Splicing
4.6 Inspection measurements	7.3 Fault location
5 Optical cables	8 Documentation
5.1 General	
5.2 Building backbone cable	9 Properties of fibre types and their main applications
5.3 Distribution cable	
5.4.1 Patch cord (patch cabling)	10 Glossary of terms
5.4.2 Equipment cabling	
5.5 Handling	11 References
5.6 Fire classification	
5.7 Cable marking	12 Cable designation
5.8 Length and conductor marking	
5.9 Type designations and descriptions	