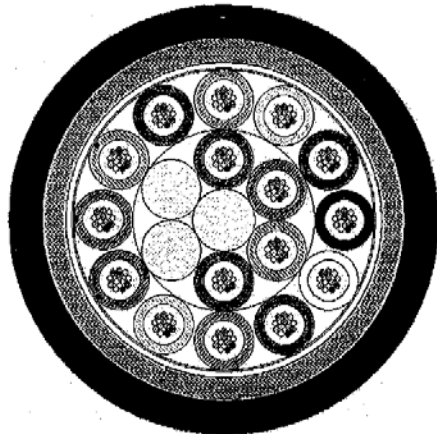
	CABLE DATASHEET Optical fiber cables	Cable Code: CDS-040B Date: 01/03/02
---	---	---

Cable Types:
192 FIBERS (48 SSM + 144 TL) ARMoured CABLES FOR DUCT APPLICATIONS



- Dielectric Central Strength Member (CSM) : FRP
- Loose Tubes containing optical fibers and full of filling compound
- Water swellable elements
- Dielectric reinforcement : aramid yarns
- Bonded Corrugated Copolymer Steel Tape
- Black Polyethylene Outer Sheath

CABLE DIMENSIONS and MAIN CHARACTERISTICS


No. of fibers		192
No. of fibers per tube		12
No. of SSM G.652 Fibers (*)		48 (four tubes in first layer)
No. of TL G.655 Fibers (**)		144 (twelve tubes in second layer)
No. of tubes		4 + 12
No. of fillers (dummy tubes)		2 + 0
Loose tube / filler diameter	mm	2.5
CSM diameter	mm	2.6
Cable diameter	mm	18.4
Cable weight	Kg/km	290

TRANSMISSION CHARACTERISTICS:

(*) **SSM fibers**

Attenuation at	1310 nm	≤ 0.38 dB/km
	1550 nm	≤ 0.25 dB/km

Other characteristics Acc. ITU-T G652.
Alcatel type 6900

	CABLE DATASHEET Optical fiber cables	Cable Code: CDS-040B Date: 01/03/02
---	---	---

(**) NZDS fibers

Attenuation at	1550 nm	≤ 0.25 dB/km
	1625 nm	≤ 0.25 dB/km

Other characteristics Acc. ITU-T G.655
Alcatel type Teralight™ 6911


IDENTIFICATION

Fibers color code:

No.	Color	No.	Color	No.	Color
1	Blue	5	Grey	9	Yellow
2	Orange	6	White	10	Violet
3	Green	7	Red	11	Pink
4	Brown	8	Black	12	Turquoise

Loose Tubes and fillers color code

FIRST LAYER			
Tube No.	Color / Fiber Type	Tube No.	Color / Fiber Type
1	Blue / TL	4	Brown / TL
2	Orange / TL	5	Filler (Natural)
3	Green / TL	6	Filler (Natural)
SECOND LAYER			
7	Grey / TL	13	Pink / TL
8	White / TL	14	Turquoise / TL
9	Red / TL	15	Striped Blue / SSM
10	Black / TL	16	Striped Orange / SSM
11	Yellow / TL	17	Striped Green / SSM
12	Violet / TL	18	Striped Brown / SSM

	CABLE DATASHEET Optical fiber cables	Cable Code: CDS-040B Date: 01/03/02
---	---	---

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile performance	EN 187000,501	2700 N	$\Delta\alpha \leq 0.05$ dB
Crush	EN 187000,504	2 kN / 100 mm	$\Delta\alpha \leq 0.05$ dB
Impact	EN 187000,505	10 Nm, 3 impacts	$\Delta\alpha \leq 0.05$ dB
Repeated bending	EN 187000,507	280 mm bending radius 100 cycles	$\Delta\alpha \leq 0.05$ dB
Torsion	EN 187000,508	$\pm 180^\circ$, 1m, 100 N	$\Delta\alpha \leq 0.05$
Temperature cycling	EN 187000,602	-10°C ... +60°C	$\Delta\alpha \leq 0.05$ dB/km
Water penetration	EN 187000,605	1 m cable, 1 meter water, 24 h	No water leakage