

Type:	Simplex – SMX 1,6-2,8	REV: 3.7
Issued:	20/03/2014	SK
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Simplex SMX Cable 1,6 – 2,8 mm



*Schematic drawing, not to scale

APPLICATION

Distribution systems cable
For patchcords and pigtails
Terminals connection

DESIGN

LSOH with low coefficient of friction
Aramid yarns
Central tight buffer tube 600/900µm
250µm coloured fibre

CABLE DESIGNS

Variant	Fibres quantity	Ø nominal (±5%)	Nominal weight (±5%)	Max allowable tension	Crush
	[pcs]	[mm]	[kg/km]	[N] ($\epsilon_r \leq 0,5\%$)	[N/100mm]
1F	1	1,6	3	100	300
1F	1	1,8	4	150	400
1F	1	2,0	5	200	500
1F	1	2,4	6,5	300	600
1F	1	2,8	7,5	300	800

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Test Standard	Specified Value	Requirement
Crush	IEC 60794-1-21-E3	200 - 800 N / 100 mm, max. 15 min	$\Delta\alpha \leq 0.1$ dB, no damage
Cable bend	IEC 60794-1-21-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.1$ dB, no damage
Temperature: Installation	IEC 60794-1-22-F1	-5... +40 [°C]	$\Delta\alpha \leq 0.1$ dB/km, reversible
Operation		-10... +60 [°C]	
Transport & Storage		-20... +60 [°C]	

OUTER SHEATH, TIGHT BUFFER TUBES AND OPTICAL FIBRES COLOUR IDENTIFICATION

Buffer / sheath colour	Red	Green	Blue	White	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua	Lime green
RAL	3000	6009	5012	9010	4003	2003	7037	1021	8003	3015	9005	6027	Munsell 5GY 8/10


FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFPP document.

MARKING

The following print (inkjet) is applied at 1-meter intervals:

- Standard code (product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Double sine wave
- Length marking in meters
- Cable ID / Drum No

Example: SMX-16 1F SM G652D "YEAR OF MANUFACTURE" "DOUBLE SINE WAVE SYMBOL" "LENGTH MARKING" "BATCH NUMBER"
SMX-16 1F SM G652D 2020  00001m 00001/1

PACKING

Cables will be shipped on disposable plywood drums. Both ends of the cable will be capped and accessible for testing. Identification information will be placed on the drum.

DELIVERY LENGTH

1000 - 8000 meters $\pm 5\%$, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

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