

Type:	Simplex – SMX 1,2-2,8	REV: 3.4
Issued:	20/03/2014	SK
Modified:	23/11/2016	MM

Simplex SMX Cable 1,2 – 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] ($\epsilon_f=0,5\%$)	[N/100mm]
1F	1	1,2	2	50	200
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 60794-1-2-E3	200 - 800 N / 100 mm, max. 15 min	$\Delta\alpha \leq 0.1$ dB, no damage
Cable bend	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.1$ dB, no damage
Temperature: Installation	IEC 60794-1-2-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

Fibre type	SM G.652D	SM G.657 A1 / A2 / A3	MM 62,5/125 OM1	MM 50/125 OM2	MM 50/125 OM3	MM 50/125 OM4
Buffer / sheath colour	Yellow	White	Blue	Orange	Aqua	Violet
RAL	1021	9010	5012	2003	6027	4003

Customized sheath/buffer colours available.


FIBRES PARAMETERS

Optical fibres parameters see **DSH_OFFP** document.

MARKING

The following print (black / ink jet) 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-12 1F SM G652D "YEAR OF MANUFACTURE" "DOUBLE SINE WAVE SYMBOL" "LENGTH MARKING" "BATCH NUMBER"
SMX-12 1F SM G652D 2015  00001m 0001/1

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, 2000, 4000, 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.