

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\_OFF** 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.