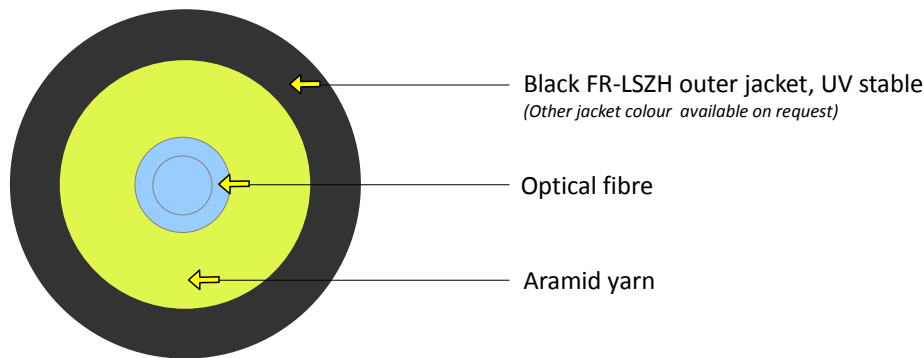


# Drop Cable

ID: **Z237**

## Fve 1\*1(657.A1)B/T/L - J/A-N(ZN)H 1F

This cable is suitable for indoor or outdoor aerial use.



The picture represents a cable with 1 fiber.

### Fibre colour coding

According to Magyar Telekom

1 red RAL 3018 (3027)

### Sheet Marking

Print colour White  
Print method INK-Jet – durable  
Print legend

<< KDP/Exim Kábel Kft. >> << mm/yyyy of manufacturing  
>> << Fve 1\*1(657.A1)B/T/L E9/125 J/A-N(ZN)H DROP  
cable >> << production number >> << length m >>

### Design

Fve 1\*1(657.A1)B/T/L J/A-N(ZN)H 1F - Optical fibre indoor/outdoor cable containing buffered fibre element with one fibre in concentric position, compliant to ITU-T G.657.A1 Recommendation

### Packaging Standard put-up length Drum size

Box	1000 m ± 5% *	cardbox with a spool
Spool	2100 m ± 5% *	450×300×390

\*other lengths on request

# Drop Cable

ID: **Z237**

## Fve 1\*1(657.A1)B/T/L - J/A-N(ZN)H 1F

### Mechanical and Environmental properties

Test	Value	Unit	Method	Comment	
Cable outer diameter	1F	2,8 ±0,2	mm	EN 60811-1-1	
Cable weight	1F	10	kg/km	- calculated	
Outer jacket thickness		0,6	mm		
Max. tensile strength		1000	N	EN 60974-1-2-E1	- max. fiber strain 0,8 % - 350 N fiber strain 0,3 % - max. attenuation variation ≤ 0,05 dB at 1550 nm - no increase attenuation after the test
Crush resistance test		1000	N	EN 60974-1-2-E3	- plate dimensions 100x100 mm - max. attenuation variation ≤ 0,05 dB at 1550 nm - duration of loading 1 min. - no increase attenuation after the test
Impact resistance test		3	Number of impact	EN 60974-1-2-E4	- impact energy 3 Nm, slightly damaged jacket - impact energy 5 Nm, no jacket cracking - max. attenuation variation ≤ 0,05 dB at 1550 nm - no increase attenuation after the test
Min. bend radius (no load)		10	mm	EN 60974-1-2-E11a	- max. attenuation variation ≤ 0,05 dB at 1550 nm - no increase attenuation after the test
Min. bend radius (load)		12	mm	EN 60974-1-2-E11b	- max. attenuation variation ≤ 0,05 dB at 1550 nm - no increase attenuation after the test
Temperature range	Installation Operation Storage	-5 to +50°C -20 to +60°C -20 to +60°C		EN 60794-1-22-F1	- max. attenuation variation ≤ 0,1 dB at 1550 nm - Dwell time in max. temperature 24 hours. - When installing or assembly under temperature bellow 5°C cable has to be stock in temp of 20°C at least 24h before installation. - no increase attenuation after the test
Fire properties – Flammability		pass		EN60332-3-22 (cat.A) ČSN EN 50266-2-2	- 40 min exposure to flame - length of the burned sample max. 2,5m
Fire properties – Acid gases		pass		EN 50267 EN 50267-2-2 EN 50267-2-3 EN 60754-1 EN 60754-2	- min. pH 4,3 - max. 10µS/mm
Fire properties – Smoke density		pass		EN 61034-1 EN 61034-2	- min. 60%

Cable life time - minimum 30 years

# Drop Cable

ID: **Z237**

## Fve 1\*1(657.A1)B/T/L - J/A-N(ZN)H 1F

-1,4 ppm/K

Max. fibre strain 0,6%

SPAN (m)	INSTALATION		NESC LIGHT			NESC MEDIUM			NESC HEAVY		
			sag (m)		load (N)	Sag (m)		load (N)	sag (m)		load (N)
	Sag 1,5%(m)	N	horizontal	vertical		horizontal	vertical		horizontal	vertical	
20	0,3	28	0,48	0,22	196	0,46	0,57	405	0,48	0,79	668
30	0,5	38	0,83	0,38	257	0,78	0,97	534	0,82	1,34	884
40	0,6	56	1,16	0,54	325	1,12	1,39	664			
50	0,8	65	1,56	0,72	379	1,51	1,88	772			
60	0,9	84	1,94	0,90	438	1,91	2,37	883			
70	1,1	93	2,38	1,10	488						
80	1,2	112	2,79	1,29	542						
90	1,4	121	3,28	1,52	586						
100	1,5	140	3,72	1,72	638						
110	1,7	149	4,23	1,96	679						
120	1,8	167	4,70	2,18	728						
130	2,0	177	5,24	2,42	767						
140	2,1	195	5,73	2,65	814						
150	2,3	205	6,28	2,91	853						

SPAN (m)	INSTALATION		NESC LIGHT			NESC MEDIUM			NESC HEAVY		
			sag (m)		load (N)	Sag (m)		load (N)	sag (m)		load (N)
	Sag 3%(m)	N	horizontal	vertical		horizontal	vertical		horizontal	vertical	
20	0,6	14	0,65	0,30	145	0,54	0,67	345	0,53	0,87	604
30	0,9	21	1,03	0,48	206	0,88	1,1	475	0,89	1,45	820
40	1,2	28	1,44	0,67	263	1,27	1,57	591			
50	1,5	35	1,88	0,87	316	1,67	2,08	700			
60	1,8	42	2,34	1,08	365	2,1	2,61	805			
70	2,1	49	2,82	1,31	413						
80	2,4	56	3,31	1,53	460						
90	2,7	63	3,82	1,77	505						
100	3,0	70	4,35	2,01	548						
110	3,3	77	4,89	2,26	590						
120	3,6	84	5,44	2,52	631						
130	3,9	91	6,02	2,79	671						
140	4,2	98	6,59	3,05	711						
150	4,5	105	7,18	3,32	750						
160	4,8	112	7,79	3,61	787						
170	5,1	119	8,39	3,89	825						

