

# SCHOTT SpectraFlex<sup>®</sup> Glass Harnesses

## High-quality end-emitting glass fiber optic harnesses

SCHOTT designed its SpectraFlex glass fiber optic harnesses with a number of outstanding user benefits, including:

- Compliance with IEC's fire-retardant standard 60332-1-2
- Excellent color characteristics and light transmission
- Electrical safety for worry-free performance
- Excellent flexibility due to a multi-fiber construction
- Unrivalled longevity
- High-quality SCHOTT glass fibers
- Factory-terminated common end for superior quality, performance and longevity



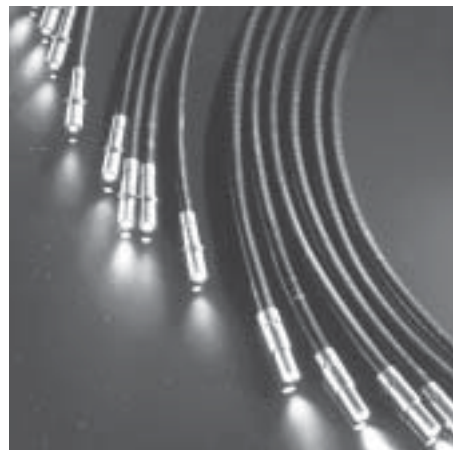
### ORDERING INFORMATION

Subject to certain guidelines, SCHOTT can produce SpectraFlex harnesses to meet specific customer requirements. Harnesses can include different cable sizes and tail lengths.

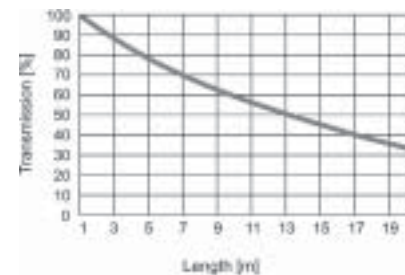
Mixed SCHOTT tails—e.g. SpectraFlex and SpectraStream—of different sizes can be included in a single harness. These special SCHOTT harnesses are available upon request.

When ordering, please note the maximum number of tails possible in a harness, as well as the maximum tail length.

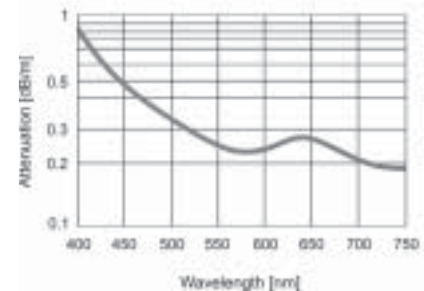
Note: Tolerances apply to the tail length of fiber optic harnesses. Please contact SCHOTT for details.



The transmission of light versus tail length



Absorption of light, per meter of fiber, versus wavelength



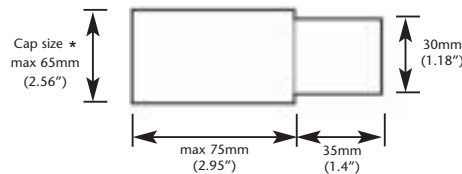
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glass made of ideas

# Specifications

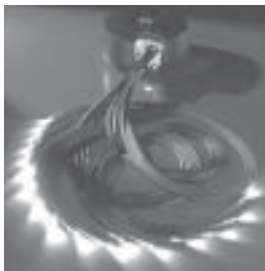
SIZE	Units	SIZE							
		0.75	1.5	3	8	14	18	24	36
Fiber bundle diam.	mm (in)	1.0 (0.04)	1.5 (0.06)	2.0 (0.08)	3.0 (0.12)	4.0 (0.16)	4.5 (0.18)	5.8 (0.23)	7.3 (0.29)
Outer diameter	mm	2.2 ±0.10	2.7 ±0.10	3.85 ±0.15	4.85 ±0.15	6.35 ±0.15	7.4 ±0.15	8.7 ±0.30	10.1 ±0.30
	(in)	(0.09) (±0.004)	(0.11) (±0.004)	(0.15) (±0.006)	(0.19) (±0.006)	(0.25) (±0.006)	(0.25) (±0.006)	(0.34) (±0.012)	(0.40) (±0.012)
Minimum bending radius	mm	5	8	15	20	25	40	50	60
	(in)	(0.20)	(0.31)	(0.59)	(0.79)	(0.98)	(1.58)	(1.97)	(2.36)
Maximum number of tails	Cap size A (40 mm)	130	81	40	23	15	12	9	7
	Cap size B (54 mm)	290	182	90	52	34	26	16	10
	Cap size C (65 mm)	465	265	130	59	-	27	-	-
Randomized option		no	no	no	yes	yes	yes	yes	yes
Tail ferrule options		B1	B1.5	B2, F2	B3,G3, SG3,F3	B4,F4, G4	F4.5, G4.5,B4	F6	F7.3
Common end		S30							
Sheathing		HFFR compounds (halogen-free and flame-retardant)							
Operating temperature	°C (°F)	-20 ... +80 (+4 ... +176)							

Special configurations upon request

Common end S30



\* See "maximum number of tails, unrandomized" in table above.



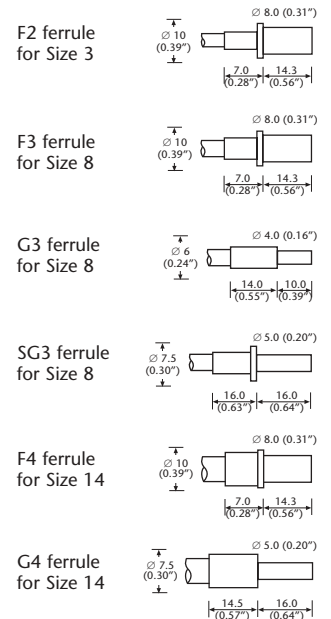
SpectraFlex® is a registered trademark of SCHOTT AG.

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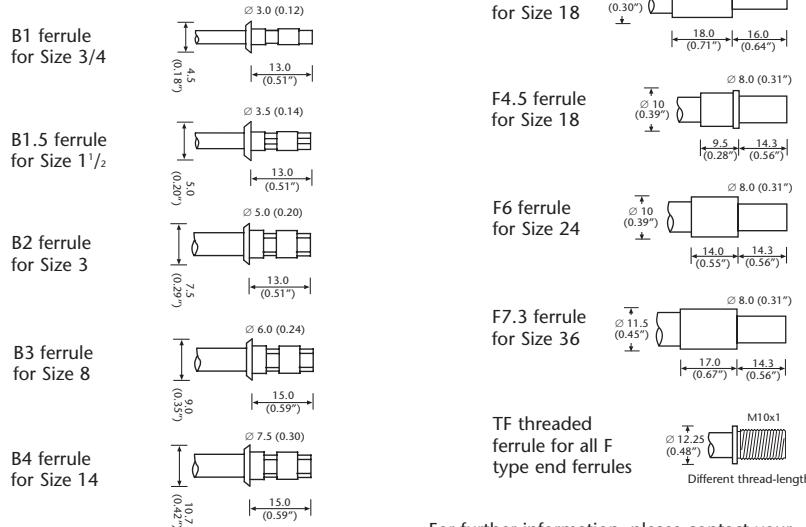
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## End ferrules — lighting applications



## End ferrules — decorative applications



For further information, please contact your local SCHOTT sales office.

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In a continuing effort to offer the best product possible, SCHOTT reserves the right to change, without notice, specifications or materials that—in SCHOTT's opinion—will not alter the function of the product.