

HARNES - POWERHOUSE™ AND ENCORE™ SERIES

Project:

Type:

Catalog Number: **AR-HARN**

System Component: **Harness**



- ◆ For Use with Large Core Optical Fibers
- ◆ For Use with the Following Illuminators:
 - PH1000 Series
 - PH3000 Series
 - Encore Series
- ◆ Replaces PH-HARN and PHP-HARN Which Have Been Discontinued

DESCRIPTION: The harness provides an effective method to couple optical fiber to an illuminator. Harnesses are custom built at the factory, based on quantity, size and length of fibers. Simply insert the harness into the illuminator and tighten the Phillips-head screw. Trimming and splice connections of fibers are easily done in the field. Use the AR-HARN with all PH and Encore Series Illuminator applications, including large core twinkle wheels applications.

To fit one type of LUMENYTE® optical fiber into a harness, refer to the chart below for the recommended maximum and physical maximum number of fiber optics:

Fiber Size	100	200	300	400	500	700
Recommended Maximum	24	12	7	3	2	1
Physical Maximum	40	19	12	5	3	1

When combining various fiber sizes, simply fill-in the appropriate blanks without exceeding 1000 points:

Fiber Size	Points	(Multiply) X	Number of Fibers	=	Total Points	Fiber Size	Points	(Multiply) X	Number of Fibers	=	Total Points	
100	25	X	_____	=	_____	100	125	X	5	=	125	
200	50	X	_____	=	_____	200	50	X	1	=	50	
300	80	X	_____	=	_____	300	160	X	2	=	160	
400	195	X	_____	=	_____	500	325	X	1	=	325	
500	325	X	_____	=	_____	700	675	X	_____	=	_____	
700	675	X	_____	=	_____	EXAMPLE					Total	660
Total					_____							

Note: More uniform results typically are received with 600-750 points as maximum.

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Ordering Information: Forward a completed copy of this work sheet with you purchase order.

Series	Quantity of Fibers	Model Number of Lead Fiber	Length of Harness Fiber	Model Number of "Splice To" Fiber
AR-HARN				

Example:

Series	Quantity of Fibers	Model Number of Lead Fiber	Length of Harness Fiber	Model Number of "Splice To" Fiber
AR-HARN	5	SEL100	3'	SEL100
	2	SEL300	6'	SEL300
	1	SEL200	25'	CONTINUOUS
	1	SEL500	1'	LEF510-M

General Guidelines:

1. **Recommended maximum** quantities of fibers (60-70% of Maximum) will produce more uniform results than physical maximum.
2. Six inches (152mm) of optical fiber is used within the harness entering into the illuminator. Always order optical fiber length to allow for this and unforeseen installation obstructions. Trim back excess length in the field. Field verification of lengths is recommended prior to final order.
3. Use only recommended products and procedures for splicing harness lead fiber(s) to the installed optical fiber. Please refer to Splice Kit/Splicing in Optical Fiber section for details.
4. Splices should only be done at 1' (25.4mm) minimum straight run areas of the optical fiber. To avoid light being seen at the splice, wrap outside of splice sleeve first with **white** electrical tape (or heat shrink), then with black electrical tape (or heat shrink).
5. When no splice is required, indicate on order work sheet under **Model Number of "Splice To" Fiber as Continuous** (See example above).