

# Wire Management



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# Wire Management

## Electro-Duct Wiring Duct

Design features for speed, easy installation and assembly.

### Mounting slots

Standard at no extra charge on all sizes of duct. Two sizes of oblong mounting holes alternating on their own 2 inch centers. All 1 and 2 inch width duct have one row of slots along its center line. The 3 and 4 inch width duct have two rows of slots.

### Snap-Off Sidewall Fingers

Permits enlarging slot for lead-offs of any size wire and/or wire bundle; forms clean duct joints. Are pre-scored for smooth snap-off surfaces. **REQUIRES NO TOOLS OR ANY CUTTING.**



## Type BA6

**Description:** Specially compounded high impact, rigid vinyl - won't peel, chip or crack; resists oils, grease, salt solutions, most mildly concentrated acids, fungus; non-flammable, warp-proof, non-brittle; high dielectric and will withstand temperatures to 150°C.

Easily cut to length - requires only a fine-tooth hand or power cutting tool for butt or mitred joints.

**Packaging:** Standard length (6'6") 2 meter. Sold as unit; Catalog number includes channel and cover.

### Mechanical Properties

Tensile strength: 4400 lbs/sq. in.  
Impact Resistance: 1.86 ft. lbs./sq. in.  
Coefficient of Thermal Expansion:  $2.5 \times 10^{-5}$  m/m°F.

### Electrical Properties

Dielectric Strength: 875 volts/mil  
Surface Resistivity:  $10^{11}$  ohm  
Volume Resistivity:  $10^{17}$  ohm cm.  
Relative Dielectric Constant: 3

### Thermal Properties

Flammability: Self extinguishing UL94V-0  
Maintains dimensional stability under heat:  $\approx 65^\circ\text{C}$  i.e.  $\approx 150^\circ\text{F}$  as per DIN standard #53458.

### Duct Capacity Guide

Maximum recommended number of wires used in various sizes of duct - based on 50% fill capacity and derived from the following formula:

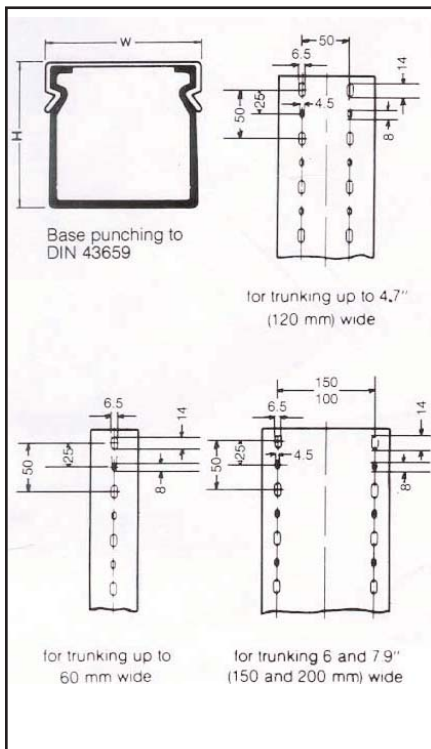
$$\text{Number of wires} = \frac{\text{Duct } W \times H}{2 \times (\text{wire O.D.})^2}$$

This chart is a guide in selecting proper size duct. The amount may vary according to wire installation methods.

### Colors:

Available in Gray or White.  
For Gray - part # ends in .0  
For White - part # ends in .1

### Sizes, Dimensions, Ordering Data (Catalog Number includes cover):



Catalog Number	Dimensions (W x H)		Max. No. of 18 AWG at 50% Area Fill	Capacity (mm <sup>2</sup> )	Std. Pkg. Ft.
	mm	Nominal Inches			
34.185.1501.0 (or .1)	19 x 19	0.75 x 0.75	25	272	210
34.185.3001.0 (or .1)	18 x 32	0.75 x 1.25	42	460	262
34.185.4001.0 (or .1)	19 x 44	0.75 x 1.75	62	668	177
34.185.6001.0 (or .1)	19 x 63	0.75 x 2.50	87	958	177
34.185.2002.0 (or .1)	31 x 23	1.25 x 1.00	52	570	262
34.185.3002.0 (or .1)	30 x 33	1.25 x 1.25	72	792	164
34.185.4002.0 (or .1)	30 x 44	1.25 x 1.75	95	1056	157
34.185.6002.0 (or .1)	30 x 65	1.25 x 2.50	140	1560	197
34.185.8002.0 (or .1)	31 x 85	1.25 x 3.25	199	2108	66
34.185.4004.0 (or .1)	45 x 44	1.75 x 1.75	143	1584	164
34.185.3004.0 (or .1)	46 x 34	1.75 x 1.25	112	1250	157
34.185.6004.0 (or .1)	46 x 65	1.75 x 2.50	215	2392	131
34.185.8004.0 (or .1)	47 x 85	1.75 x 3.25	287	3196	66
34.185.4006.0 (or .1)	67 x 45	1.50 x 1.75	217	2412	131
34.185.6006.0 (or .1)	66 x 65	2.50 x 2.50	313	3432	78
34.185.8006.0 (or .1)	67 x 85	2.50 x 3.25	410	4566	66
34.185.4008.0 (or .1)	86 x 45	3.50 x 1.75	278	3096	98
34.185.6008.0 (or .1)	86 x 65	3.50 x 2.50	408	4472	65
34.185.8008.0 (or .1)	87 x 85	3.50 x 3.25	531	5916	52
34.185.6010.0 (or .1)	107 x 65	4.25 x 2.50	524	5564	52
34.185.8010.0 (or .1)	107 x 85	4.25 x 3.25	709	7900	39
34.185.4012.0 (or .1)	126 x 45	5.00 x 1.75	446	4536	65
34.185.6012.0 (or .1)	126 x 65	5.00 x 2.50	593	6552	39
34.185.8012.0 (or .1)	127 x 85	5.00 x 3.25	776	8636	52
34.185.6015.0 (or .1)	156 x 65	6.00 x 2.50	740	8112	52
34.185.6020.0 (or .1)	206 x 65	8.00 x 2.50	977	10712	39

Meets JIC Requirements. U.S. Patent No. 908.985 Approved by CSA.

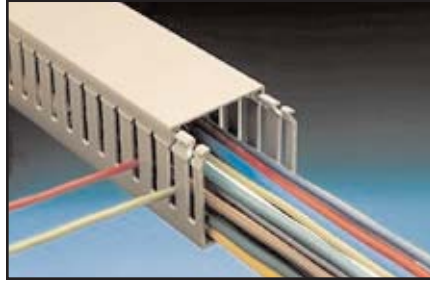
# Wire Management

## Type DNG

**Description:** Similar to BA6 but fingers are formed with wire-retaining slots.

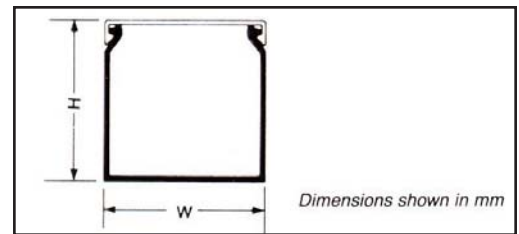
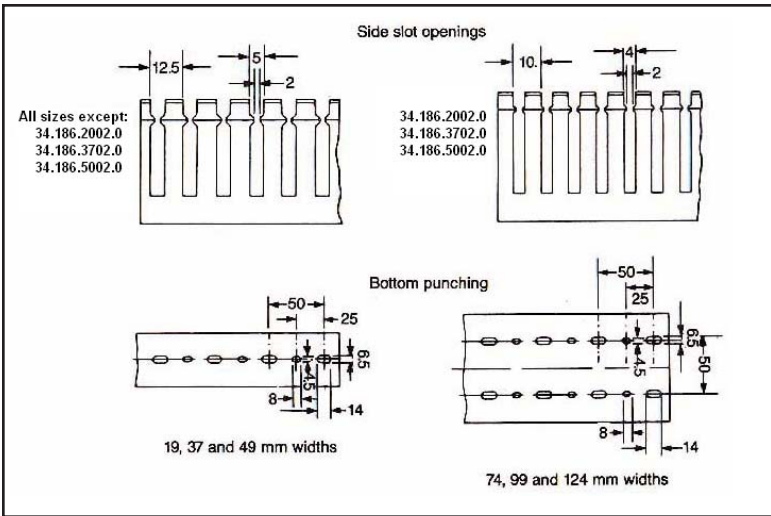
**Specifications:** See previous page for information.

Sidewalls are prescored to permit enlarging slot for load-offs without the need for tools or cutting.



Catalog Number	Dimensions (W x H) Nominal Inches	Max. No. of 18 AWG at 50% Area Fill	Std. Pkg. Ft.
34.186.2002.0 (or .1)	0.75 x 0.75	23	210
34.186.3702.0 (or .1)	0.75 x 1.50	43	105
34.186.5002.0 (or .1)	0.75 x 2.00	59	65
34.186.2502.0 (or .1)	1.00 x 1.00	36	157
34.186.5025.0 (or .1)	1.00 x 2.00	72	59
34.186.7502.0 (or .1)	1.00 x 2.75	110	104
34.186.2503.0 (or .1)	1.50 x 1.00	56	157
34.186.3703.0 (or .1)	1.50 x 1.50	84	131
34.186.5003.0 (or .1)	1.50 x 2.00	114	157
34.186.7503.0 (or .1)	1.50 x 2.75	170	66
34.186.5005.0 (or .1)	2.00 x 2.00	151	157
34.186.7505.0 (or .1)	2.00 x 2.75	225	79
34.186.1005.0 (or .1)	2.00 x 3.75	302	74
34.186.5007.0 (or .1)	3.00 x 2.00	228	65
34.186.7507.0 (or .1)	3.00 x 2.75	340	52
34.186.1007.0 (or .1)	3.00 x 3.75	456	52
34.186.5010.0 (or .1)	4.00 x 2.00	305	79
34.186.7510.0 (or .1)	4.00 x 2.75	454	52
34.186.1001.0 (or .1)	4.00 x 3.75	610	39
34.186.5012.0 (or .1)	4.90 x 2.00	382	52
34.186.7512.0 (or .1)	4.90 x 2.75	569	39

(Catalog Number includes cover)



## Type HNG - Noryl (Chlorine Free)

**Description:** For high temperature applications and where a chlorine-free environment is desired. Includes prescored snap-off fingers; snap-on/off cover design; and integral slotted mounting holes. Dimensions identical to DNG duct sizes shown above.

**Color:** Light Gray

**Packaging:** Standard length (6'6") 2 meter. Sold complete with covers.

### Mechanical Properties

Tensile strength: 9600 psi (675 kg/cm<sup>2</sup>)

Impact resistance: 6.98 ft lbs/sq in.

(<15 cm kg/cm<sup>2</sup>)

Coefficient of thermal expansion:

59 x 10<sup>6</sup> per °C.

### Electrical Properties

Dielectric strength: 500 volts/mil.

### Thermal Properties

Flammability: UL94 V-1

Temperature range: -40°C to 125°C

**Material:** Noryl (modified Polyphenyl Oxide).

Catalog Number	Dimensions (W x H) Nominal Inches
34.187.3703.0	1.50 x 1.50
34.287.5037.0	1.50 x 2.00
34.287.5050.0	2.00 x 2.00
34.187.7507.0	2.00 x 2.75
34.187.5007.0	3.00 x 2.00
34.287.7575.0	3.00 x 2.75
34.187.5010.0	4.00 x 2.00
34.187.7510.0	4.00 x 2.75
34.187.7512.0	5.00 x 2.75

(Catalog Number includes cover)



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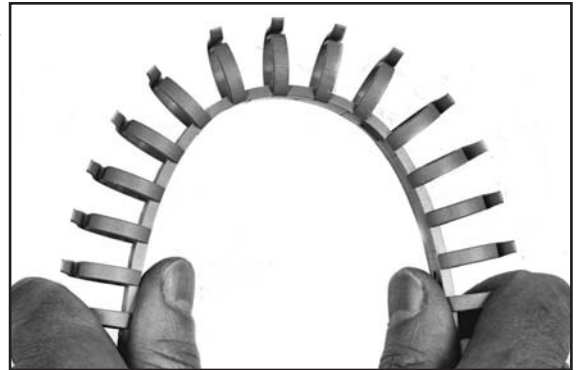
## VK-Flex Molded Nylon Wiring Duct (Halogen Free)

**Description:** A flexible wiring duct that is especially suitable for switchgear, control panels, distribution equipment, cubicles and other areas where flexibility of design and installation are required.

The one-piece design with its overlapping fingers, eliminates the separate cover used with conventional duct, makes rewiring easy and lends itself to a more efficient use of space. Open slots allow for lead-offs and because the duct is molded, there are no sharp edges.

Each strip is fully interlocking for continuous end-to-end attachment. Molded with slotted mounting holes, VK-FLEX is also available with a permanent, self-adhesive backing - eliminating the need for other types of fasteners.

The open design of VK-FLEX, allowing for air circulation along with a temperature operating range of -40°C to 100°C (-40°F to 212°F), makes it especially suitable for enclosed areas where heat build-up may be a problem.

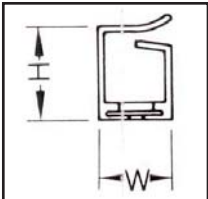


### Specifications

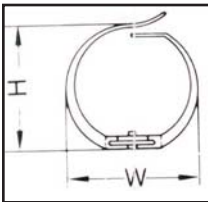
**Material:** Polyamide UL94V-O

**Color:** Standard color is Gray

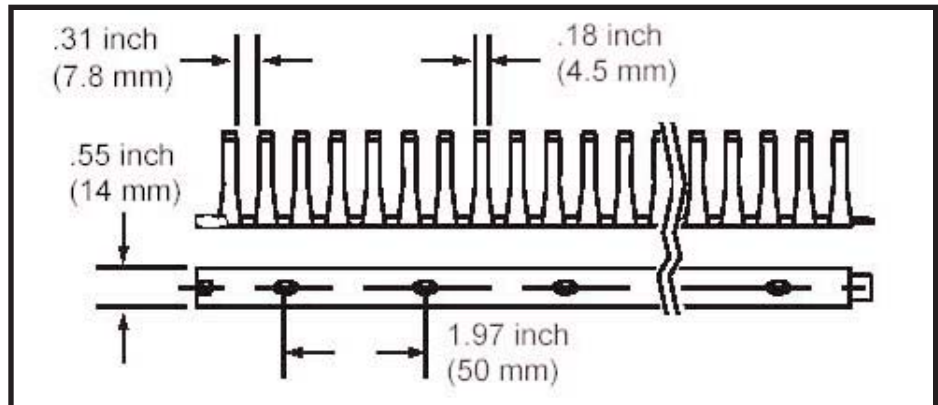
Mounting Slots Catalog Number	Permanent Self-Adhesive Strip Catalog Number	Dimensions						Wire Capacity			Std. Pkg. lengths
		(inches)			(mm)			#18	#16	#14	
		W	H	L	W	H	L				
34.188.0010.0	34.188.0010.1	0.43	0.59	9.84	11	15	250	10	8	5	40
34.188.0020.0	34.188.0020.1	0.90	0.83	19.68	23	21	500	20	18	13	40
34.188.0030.0	34.188.0030.1	1.30	1.22	19.68	33	31	500	57	46	30	40
34.188.0040.0	34.188.0040.1	1.69	1.77	19.68	43	45	500	101	81	53	40



34.188.0010.0 & 1  
side view



All other VK-FLEX  
side view

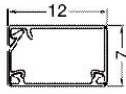
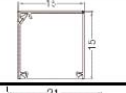


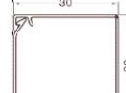


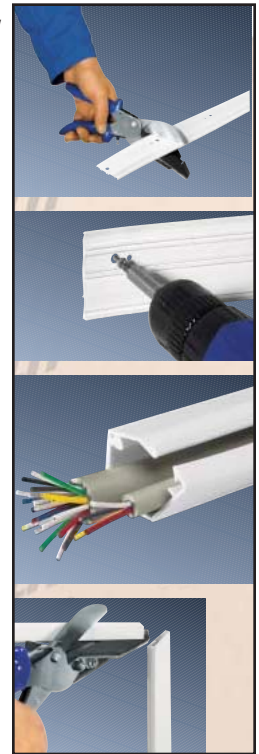
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## LFR Trunking

**Description:** The LFR trunking is flat duct made of a strong but flexible material. The LFR trunking is delivered rolled flat in a cardboard box. When stored, the product takes up little space so it is ideal for those unplanned installations. The specifically designed cutter is available as an accessory and achieves a perfect cut every time. To guarantee a fast installation, the base of the LFR trunking is both self-adhesive and hole punched. The unique folding system allows the cables to be held in place before closing the cover.

**Specifications:** *Material:* Rigid PVC  
*Packing:* Packing and contents compact 20 meter rolls, with punched base and self-adhesive tape.  
 (Sold in complete packages only)

Dimensions Height/Width	Designation (height/width)	Color	References	Packing
	<b>34.284.7012.1</b> (7 x 12)	White	<b>LFR7012 09010 T2</b> 4012740837606	20 m
	<b>34.284.1515.1</b> (15 x 15)	White	<b>LFR1501509010 T2</b> 4012740837613	20 m
	<b>34.284.2020.1</b> (21 x 20)	White	<b>LFR20020 09010 T2</b>	20 m
	<b>34.284.2053.1</b> (18 x 33)	White	<b>LFR20035 0 9010 T2</b>	20 m
	<b>34.284.3030.2</b> (30 x 30)	White	<b>LFR 30030 0 9010 T2</b>	20 m



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