

Data Sheet



R&M Raceway System

Raceway System

The R&M Raceway System is a fiber optic ducting designed to perfectly route, isolate and protect fiber optic jumper and optical cables from the building entry to fiber distribution frames or between termination equipment, patch panels and fiber optic cabinets. By routing the fiber optic cords separately from copper cabling, a very high safety and failure-free operation of the optical network is guaranteed. The unique snap-fit Raceway solution can be quickly installed without any special tools, saving time and money. The simple and compact form is suitable for various applications. The Raceway System is available in 6 sizes, providing a solution for any fiber routing application. Fiber optic ducting is a unique system and can be easily mounted above equipment racks or below floors. It provides an easily accessible solution for every situation. The following additional tools make the planning and ordering process easy:

- Site survey and ordering sheet
- Planning support, Visio Shapes drawing for an easy Visio or AutoCAD planning

General

Material:	PC/ABS
Attribute:	Halogen free, RoHS, UV & Heat-resistant, Flame-retardant UL94/V0, resistance against electrical shock, UL2024 recognized
Color:	Yellow, RAL1021
Bend radius:	Radius R30

Dimensions

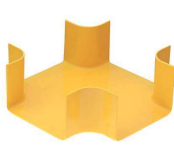
Width/height (mm):	30x50 / 50x50 / 100x100 / 160x100 / 220x100 / 300x100
Main duct (mm):	Standard 1000 (2000 on request)
System Density:	150 up to – 6000 Patch cord 2mm (3mm)

Basic assortment

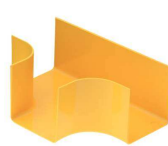
Main duct



Cross



Tee



Elbow 45°/90°



Drop Outlet



Trumpet



Snap-Joiner









End cap












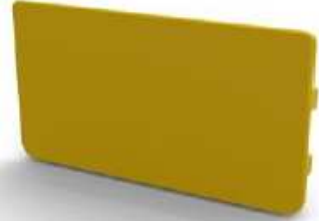

Raceway System Detail

Part No.	Image	Description	Material / Color	Planning size *
1		Main Duct 30 X 50(1.9") mm Länge: 1,000mm	PC/ABS / Yellow	L = 1000mm
		Main Duct 50(1.9") X 50(1.9") mm Length : 1,000mm	PC/ABS / Yellow	L = 1000mm
		Main Duct 100(3.9") X 100(3.9") mm Length : 1,000mm	PC/ABS / Yellow	L = 1000mm
		Main Duct 160(6.2") X 100(3.9") mm Length : 1,000mm	PC/ABS / Yellow	L = 1000mm
		Main Duct 220(8.6") X 100(3.9") mm Length : 1,000mm	PC/ABS / Yellow	L = 1000mm
		Main Duct 300(11.8") X 100(3.9") mm Length : 1,000mm	PC/ABS / Yellow	L = 1000mm
		Main Duct Cover 30 mm Länge: 1,000mm	PC/ABS / Yellow	
2		Main Duct Cover 50(1.9") mm Length : 1,000mm	PC/ABS / Yellow	
		Main Duct Cover 100(3.9")mm Length : 1,000mm	PC/ABS / Yellow	
		Main Duct Cover 160(6.2")mm Length : 1,000mm	PC/ABS / Yellow	
		Main Duct Cover 220(8.6") mm Length : 1,000mm	PC/ABS / Yellow	
		Main Duct Cover 300(11.8") mm Length : 1,000mm	PC/ABS / Yellow	

Part No.	Image	Description	Material	Planning size *
3		JOINER 50(1.9") X 50(1.9") mm	PC/ABS / Yellow	
			FLAT HEAD SCREW FHS) M3 X L: 6mm	SCM440 / Ni
			JOINER 100(3.9") X 100(3.9") mm	PC/ABS / Yellow
			FLAT HEAD SCREW FHS) M3 X L: 8mm	SCM440 / BLACK
			JOINER 160(6.2") X 100(3.9") mm	PC/ABS / Yellow
			PAN HEAD SCREW WASHER S.D.S) M4 X L: 10mm	SCM440 / BLACK
			JOINER 220(8.6") X 100(3.9") mm	PC/ABS / Yellow
			PAN HEAD SCREW WASHER S.D.S) M4 X L: 12mm	SCM440 / BLACK
			JOINER 300(11.8") X 100(3.9") mm	PC/ABS / Yellow
			PAN HEAD SCREW WASHER S.D.S) M4 X L: 12mm	SCM440 / BLACK

Part No.		Image	Description	Material	Planning size *
4	509424		Horizontal TEE 100(3.9") X 100(3.9") mm	PC/ABS / Yellow	L = 260mm T = 183mm
	509425		Horizontal TEE 160(6.2") X 100(3.9")	PC/ABS / Yellow	L = 300mm T = 233mm
	509426		Horizontal TEE 220(8.6") X 100(3.9")	PC/ABS / Yellow	L = 360mm T = 293mm
	509427		Horizontal TEE 300(11.8") X 100(3.9")	PC/ABS / Yellow	L = 440mm T = 373mm
5	509520		Horizontal TEE Cover 100(3.9") mm	PC/ABS / Yellow	
	510307		Horizontal TEE Cover 160(6.2") mm	PC/ABS / Yellow	
	510308		Horizontal TEE Cover 220(8.6") mm	PC/ABS / Yellow	
	509523		Horizontal TEE Cover 300(11.8") mm	PC/ABS / Yellow	
6	509417		Horizontal Crosses 100(3.9") X 100(3.9") mm	PC/ABS / Yellow	L = 260mm T = 260mm
	509418		Horizontal Crosses 160(6.2") X 100(3.9")	PC/ABS / Yellow	L = 300mm T = 300mm
	509419		Horizontal Crosses 220(8.6") X 100(3.9")	PC/ABS / Yellow	L = 360mm T = 360mm
	509420		Horizontal Crosses 300(11.8") X 100(3.9") mm	PC/ABS / Yellow	L = 440mm T = 440mm
7	510306		Horizontal Crosses Cover 100(3.9") mm	PC/ABS / Yellow	
	509517		Horizontal Crosses Cover 160(6.2")	PC/ABS / Yellow	
	509518		Horizontal Crosses Cover 220(8.6") mm	PC/ABS / Yellow	
	509519		Horizontal Crosses Cover 300(11.8") mm	PC/ABS / Yellow	
8	509431		Horizontal Elbow 100(3.9") X 100(3.9")	PC/ABS / Yellow	L = 138mm T = 138mm
	509432		Horizontal Elbow 160(6.2") X 100(3.9")	PC/ABS / Yellow	L = 212mm T = 212mm
	509433		Horizontal Elbow 220(8.6") X 100(3.9")	PC/ABS / Yellow	L = 256mm T = 256mm
	510309		Horizontal Elbow 300(11.8") X 100(3.9")	PC/ABS / Yellow	L = 316mm T = 316mm
9	510310		Horizontal TEE Cover 100(3.9") mm	PC/ABS / Yellow	
	510311		Horizontal TEE Cover 160(6.2") mm	PC/ABS / Yellow	
	510312		Horizontal TEE Cover 220(8.6") mm	PC/ABS / Yellow	
	510313		Horizontal TEE Cover 300(11.8") mm	PC/ABS / Yellow	

Part No.		Image	Description	Material	Planning size *
10	509450		Vertical 45deg UP 100(3.9") X 100(3.9") mm	PC/ABS / Yellow	L = 135mm T = 135mm
	509451		Vertical 45deg UP 160(6.2") X 100(3.9")	PC/ABS / Yellow	L = 135mm T = 135mm
	509452		Vertical 45deg UP 220(8.6") X 100(3.9")	PC/ABS / Yellow	L = 140mm T = 140mm
	509453		Vertical 45deg UP 300(11.8") X 100(3.9")	PC/ABS / Yellow	L = 140mm T = 140mm
11	509543		Vertical 45deg UP 100(3.9") mm	PC/ABS / Yellow	
	510327		Vertical 45deg UP 160(6.2") mm	PC/ABS / Yellow	
	509545		Vertical 45deg UP 220(8.6") mm	PC/ABS / Yellow	
	509546		Vertical 45deg UP 300(11.8") mm	PC/ABS / Yellow	
12	509440		Vertical 45deg DOWN 100(3.9") X 100(3.9") mm	PC/ABS / Yellow	L = 135mm T = 135mm
	509441		Vertical 45deg DOWN 160(6.2") X 100(3.9")	PC/ABS / Yellow	L = 135mm T = 135mm
	509442		Vertical 45deg DOWN 220(8.6") X 100(3.9")	PC/ABS / Yellow	L = 140mm T = 140mm
	509443		Vertical 45deg DOWN 300(11.8") X 100(3.9")	PC/ABS / Yellow	L = 140mm T = 140mm
13	510318		Vertical 45deg DOWN Cover 100(3.9")	PC/ABS / Yellow	
	510319		Vertical 45deg DOWN Cover 160(6.2")	PC/ABS / Yellow	
	510320		Vertical 45deg DOWN Cover 220(8.6")	PC/ABS / Yellow	
	510321		Vertical 45deg DOWN Cover 300(11.8")	PC/ABS / Yellow	
14	509465		Horizontal Reduction 100(3.9") → 50(1.9") mm	PC/ABS / Yellow	L = 110mm
	509466		Horizontal Reduction 160(6.2") → 100(3.9") mm	PC/ABS / Yellow	L = 125mm
	509467		Horizontal Reduction 220(8.6") → 160(6.2") mm	PC/ABS / Yellow	L = 140mm
	509468		Horizontal Reduction 300(11.8") → 220(8.6") mm	PC/ABS / Yellow	L = 150mm
15	510333		Horizontal Reduction Cover 100(3.9") → 50(1.9") mm	PC/ABS / Yellow	
	510334		Horizontal Reduction Cover 160(6.2") → 100(3.9") mm	PC/ABS / Yellow	
	509555		Horizontal Reduction Cover 220(8.6") → 160(6.2") mm	PC/ABS / Yellow	
	509556		Horizontal Reduction Cover 300(11.8") → 220(8.6") mm	PC/ABS / Yellow	

Part No.	Image	Description	Material	Planning size *
16		Outlet Trumpet 50(1.9") mm	PC/ABS / Yellow	L = 46mm
		Outlet Trumpet 100(3.9") mm	PC/ABS / Yellow	L = 86mm
		Outlet Trumpet 160(6.2")mm	PC/ABS / Yellow	L = 106mm
		Outlet Trumpet 220(8.6") mm	PC/ABS / Yellow	L = 106mm
		Outlet Trumpet 300(11.8") mm	PC/ABS / Yellow	L = 106mm
17		Top Outlet 100x100	PC/ABS / Yellow	
18		Drop Mounting Bracket 3.0T X 432 X 105 mm	SPCC / Yellow	
		Drop Mount Bracket 3.0T X359 X 82 mm	SPCC / Yellow	
20		End Cap 100(3.9") mm	PC/ABS / Yellow	
		End Cap 160(6.2") mm	PC/ABS / Yellow	
		End Cap 220(8.6") mm	PC/ABS / Yellow	
		End Cap 300(11.8") mm	PC/ABS / Yellow	
21		T-Bolt 27.5 X 21 X 3.0T 20 X 8.5 X 2.5T(M6X24)	PC/ABS / RUBBER SCM440	

Raceway System planning size *

The Planning size is used to calculate dimension and to design a Raceway System build-up. The L is length dimension and T for the depth. More dimensions you find in the separated file planning aids.

Raceway System Strong and Durability ASTM D Test reports

Hardness 785

Sample : FIBER OPTIC DUCT

TEST RESULTS				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
20 mm Vertical Burning Test(V-0, V-1, V-2)	-		V-0	UL 94 : 1996(*)
* Specimen: (23 ± 2) °C, (50 ± 5) %, 48 hr				

Tensile 638

Sample : FIBER OPTIC DUCT(PC/ABS)

TEST RESULTS				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Tensile Strength	MPa		56.0	ASTM D 638 : 2003(*)
* Test Specimen:TYPE I , Speed of Testing:50 mm/min				

Flexural 790

Sample : FIBER OPTIC DUCT(PC/ABS)

TEST RESULTS				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Flexural Strength	MPa		80.5	ASTM D 790 : 2003(*)
* Speed of Testing:3.2 mm/min, Support Span:102 mm				

Impact 256

Sample : FIBER OPTIC DUCT(PC/ABS)

TEST RESULTS				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Izod Impact Test	J/m		680	ASTM D 256 : 2006
USAGE QUALITY CONTROL				