E2000 Connectors & Adapters

E-2000™, officially known as LSH, is the latest version of DIN connectors. This high-performance connector with snap coupling (push-pull) and floating ferrule without lateral forces is used for many applications but excellent for difficult surroundings like railway tunnels and high-end transmission systems. The unique metal dust and laser protection cap makes it also safe for use with high power.

Novobit currently offers all types of assemblies with Reichle de Massari's E-2000 products. According to standards IEC 61754-15 / TIA 604-16 and performance standard IEC 50377-8-x (includes IEC-61753, IEC 61754-4, IEC 61755-3-2 standards).

It can be assembled with cables from ø0.6mm up to ø3.0mm. The R&M E2000™ connector-kit meet category U for uncontrolled environment and may be used between -25 and + 70°C and is available as simplex.

Assembly Specifications		Single-mode		Multi-mode
Performance Class		Grade B	Grade C	Grade M
IL max. against reference [dB]		0.15	0.35	0.35
IL typical against reference [dB]		0.06	0.12	0.20
Return Loss [dB]	PC	≥ 45	≥ 45	≥ 27
	UPC	≥ 55	≥ 55	≥ 30
	APC	≥ 65	≥ 65	-
Fiber Height [nm]	PC	-50 to +50	-50 to +100	-50 to +100
	APC	-50 to +50	-100 to +100	-
Apex Offset [µm]		≤ 50	≤ 50	≤ 50
Radius [mm]	PC	5 to 25	5 to 25	5 to 25
	APC	5 to 12	5 to 12	-
Angle (°) of APC		8 ± 0.4	8 ± 0.4	-
Tensile Strength [N]		> 100	> 100	> 100

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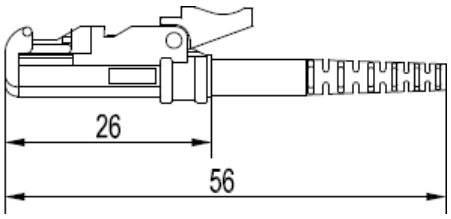
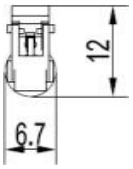
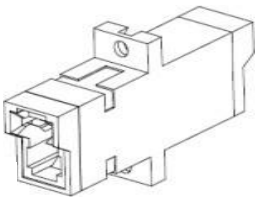
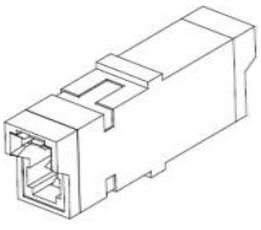
Connector Specification	
Housing	Plastic; blue, green, beige customized colors on request
Ferrule Diameter	Zircona D: 1.25mm d: 125.3-126.3µm
Concentricity	≤1.0µm (SM); ≤4.0µm (MM)
Cable Diameter	0.6 - 3mm
Flammability	UL 94 V-0
Humidity	95 %
Durability	≥1000 Matings
Tensile Strength	70N
RoHS/REACH	Compliant

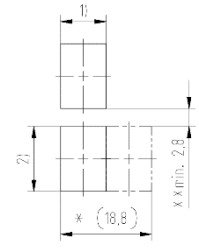
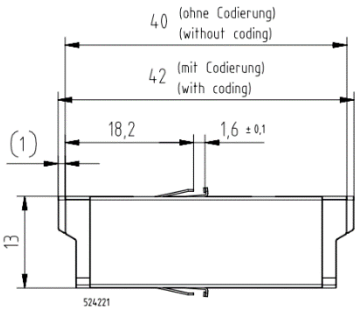
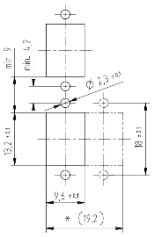
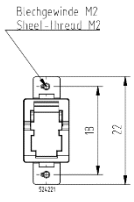
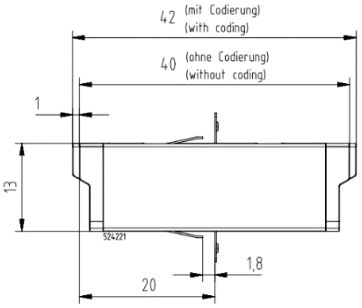




Adapter Specifications:	
Attenuation	< 0,2 dB
Repeatability 1000 cycles	< 0.2 dB
Service life	> 1000
Temperature	-25 °C to +70 °C
Flammability	UL 94 V-0
Humidity	95 %
Sleeve material	Ceramic
RoHS/REACH	Compliant







Cutout	1)	2)
Metal	9.6 ± 0.1	13.2 ± 0.1
Plastic	9.55 ± 0.05	13.15 ± 0.05