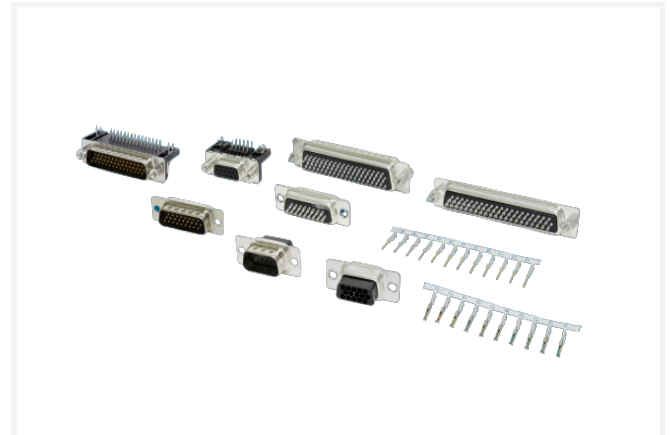


## D-Subminiature High Density Connectors

The new High Density D-Subminiature range is part of Amphenol's I/O-Connector portfolio which provides customers access to a wide range of industry standard and application specific I/O interconnect solutions. Amphenol's I/O connector solutions complete your board and system designs by providing high-density and high-speed interfaces to enable interconnect technologies for networking, storage and memory and complementary products for power distribution. Our range of standardized I/O solutions enables full compliance to industry standards, such as Ethernet, SFF, Infiniband, USB, PCMCIA or HDMI. Amphenol also has the capability to provide customized I/O solutions optimized to address application specific requirements.

Through Amphenol's high-speed, power, assembly and mechanical packaging expertise, you gain the advantage of getting your signals out of the box at optimal cost and performance. Amphenol's I/O connectors – coupled with Amphenol's extensive range of backplane and board-to-board connectors and cable assembly products–enable complete link solutions for your equipment designs.

Amphenol's D-Subminiature connectors are part of an industry standard for applications requiring robust and reliable connectors. These D-Subminiature connectors are one of the most popular Input – Output interconnects, addressing a wide variety of applications in Telecommunications, Data, Consumer, Industrial, Military, Instrumentation and Medical markets. Since many years Amphenol offers a wide range of D-Subminiature connectors to meet all design requirements, and to address increasing needs for high density packaging, Amphenol developed the D-Subminiature High Density Range.



### TARGET MARKETS



### FEATURES

- High density D-Sub connectors can accommodate more number of contacts in the basic shell sizes
- Selected layouts are also available in Press-fit and Pin-in-Paste versions
- Pin-in-Paste connectors comes in Tape & Reel packaging
- Various PCB and Panel mounting accessory options available
- Hoods available in plastic, metalized and metallic form with locking screws
- Lead-free and RoHS compliant

### BENEFITS

- Answer to the increasing need for higher density packaging
- Meets different termination needs
- Time saving as it can be automatically positioned on the board using pick and place processes
- Wide variety of choices for secure connection
- Supports cable connection; Prevents risks of pulling up and accidental un-mating
- Meets environmental, health, and safety requirements

# TECHNICAL INFORMATION

## MATERIAL

- Insulator: Glass filled thermoplastic (UL94V-0), Black
- Contact: Copper Alloy
- Shell: SPCC Steel

## ELECTRICAL PERFORMANCE

- Current Rating: Rated current: 2.5A
- Rated Voltage: 250V
- Contact Resistance: 25mΩ max. Initial and 40mΩmax. after
- Insulation Resistance: 5000mΩ min. at 500VDC
- Dielectric Strength: 750VRMS
- Operating Temperature Range: 55°C to +105°C

## MECHANICAL PERFORMANCE

- Mating/Un-mating Cycles: 200/500
- Insertion/Extraction Force per contact: 5N max. / 0.2N min.

## TARGET MARKETS/APPLICATIONS



Asymmetric Digital Subscriber Line (ADSL)  
Base Station Switching  
Transmission



Set-top Box



Desktop and Laptop Storage System  
Router and Server



Automotive Diagnostics  
Control Drives  
Energy Meter  
Gaming Machine  
Test Equipment  
Office Automation  
POS & Handheld terminal  
Power Supplies  
Parking Meter  
Printer and Copier  
Renewable Energy  
Robotics  
Surveillance Camera  
Avionics



Medical Instrument



Military Equipment

# HIGH DENSITY D-SUBMINIATURE STRAIGHT

## ORDERING INFORMATION

<b>SERIES</b>	<b>P</b>	<b>YY</b>	<b>4</b>	<b>X</b>	<b>LF</b>	RoHS status
						RoHS compliant

Gender	
Pin	P
Socket	S

No Of Contacts	
15	
26	
44	

Mounting Options	
UNC 4-40 Screw locks with Board locks	V
UNC 4-40 Clinch nuts with Board locks	X
M3 Clinch nuts with Board locks	L

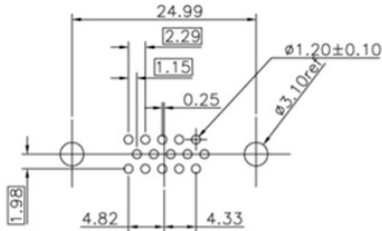
  

Durability	
200 mating cycles	4
500 mating cycles	6

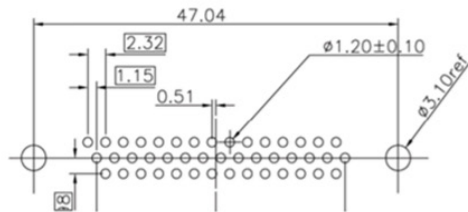
  

Series	Part Number
Male straight	10090928
Female straight	10090929

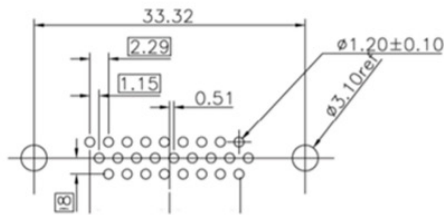
## PCB LAYOUT



P.C.B LAYOUT(FOR 15P)



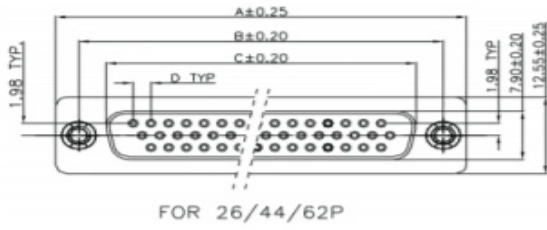
P.C.B LAYOUT(FOR 44P)



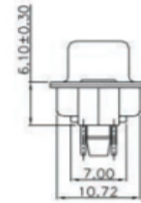
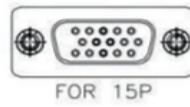
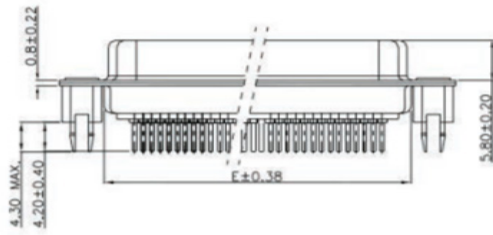
P.C.B LAYOUT(FOR 26P)

## ► D-Subminiature High Density Connectors

### DIMENSION FOR MOUNTING OPTION 'X/L'



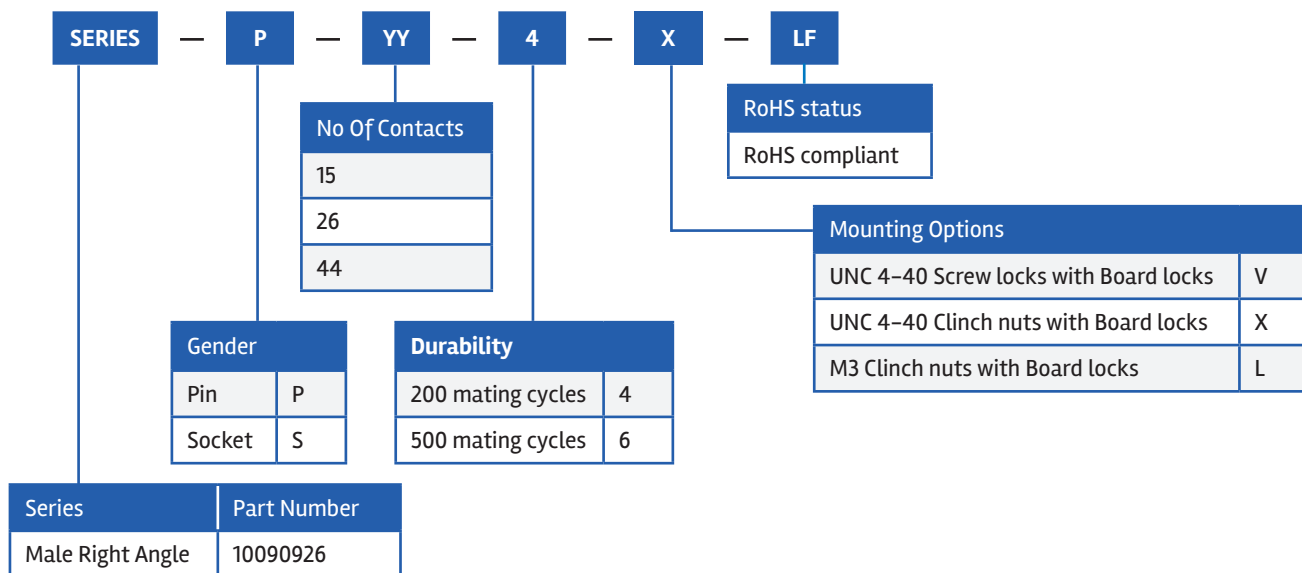
Pos.	Part Number	A	B	C	D	E
15P	10090929-S15**LF	30.81	24.99	16.33	2.29	19.10
26P	10090929-S26**LF	39.24	33.32	24.66	2.29	27.75
44P	10090929-S44**LF	53.04	47.04	38.38	2.29	41.30



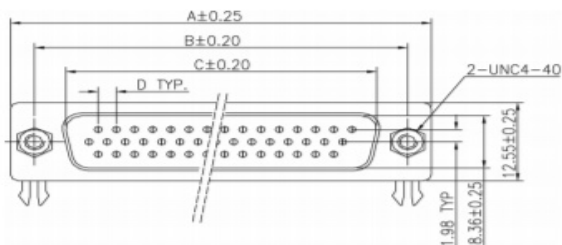
## ► D-Subminiature High Density Connectors

# HIGH DENSITY D-SUBMINIATURE RIGHT ANGLE

## ORDERING INFORMATION

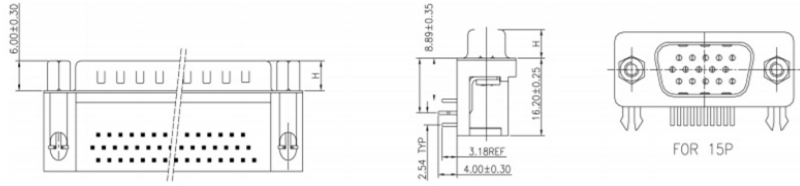


## DIMENSION FOR MOUNTING OPTION 'V'

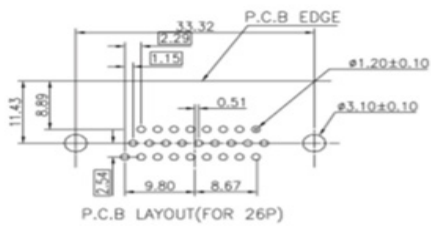
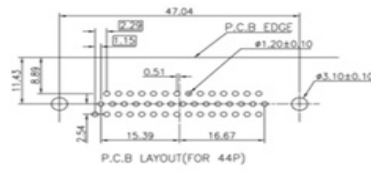
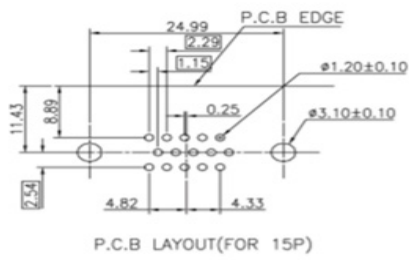


Pos.	Part Number	A	B	C	D	E	F	H
15P	10090926-P15*VLF	30.81	24.99	16.92	2.29	8.19	7.68	5.9 +0.25 -0
26P	10090926-P26*VLF	39.24	33.32	25.25	2.29	8.01	7.02	5.9 +0.25 -0
44P	10090926-P44*VLF	53.04	47.04	38.96	2.29	8.02	7.01	5.9 +0.25 -0

## ▶ D-Subminiature High Density Connectors



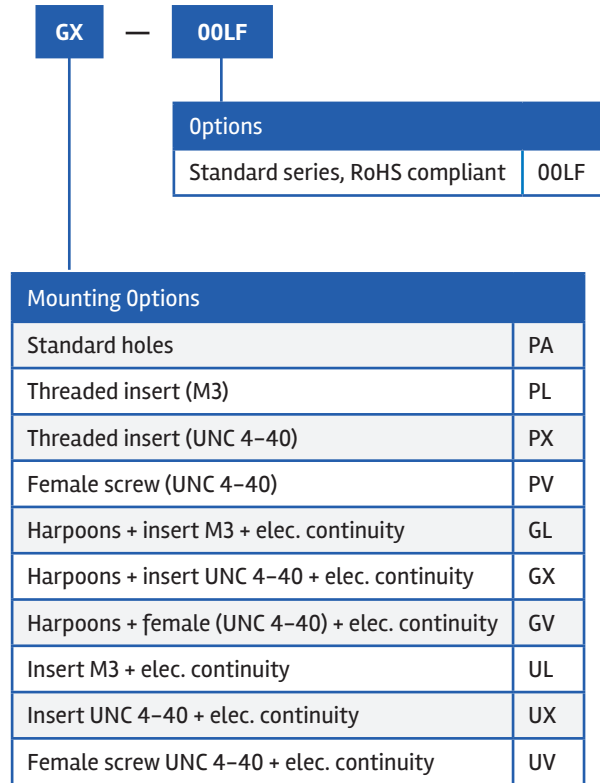
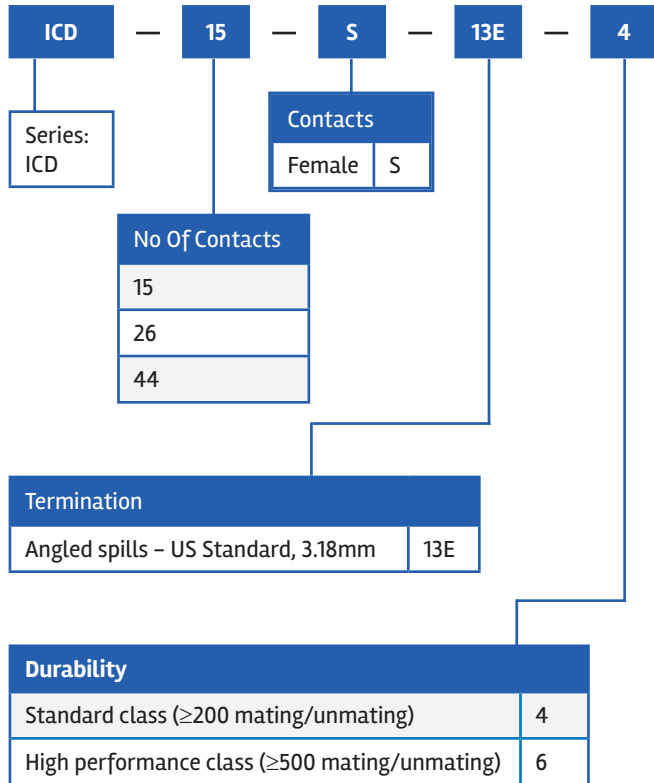
## PCB LAYOUT



## ► D-Subminiature High Density Connectors

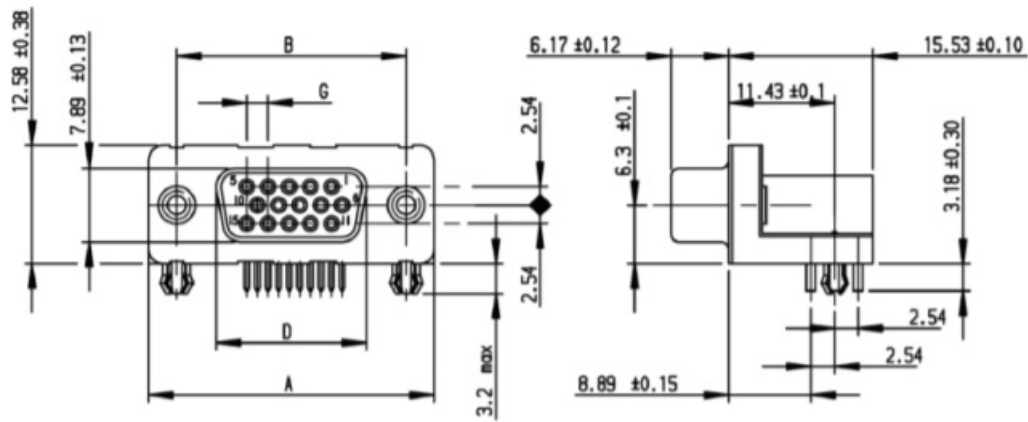
# HIGH DENSITY D-SUBMINIATURE RIGHT ANGLE FEMALE

UL RECOGNISED FILE E 118235 (R)



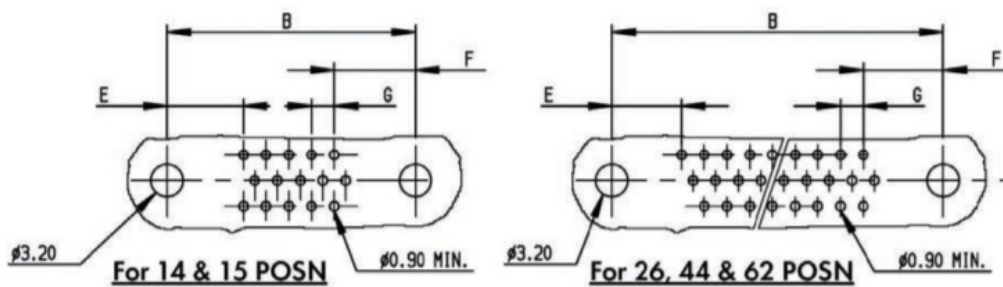
## ► D-Subminiature High Density Connectors

### HIGH DENSITY D-SUBMINIATURE 3 ROWS (15/26/44 POS)



Size	Dimensions						
	A + 0.38	B + 0.12	C + 0.10	D + 0.25	E	F	G
15	30,81	24,99	16,96	16,21	7,68	8,19	2,285
26	39,14	33,32	25,18	24,54	7,02	8,01	2,285
44	53,03	47,04	39,12	38,25	7,01	8,02	2,285

### PCB DRILLING DIMENSIONS

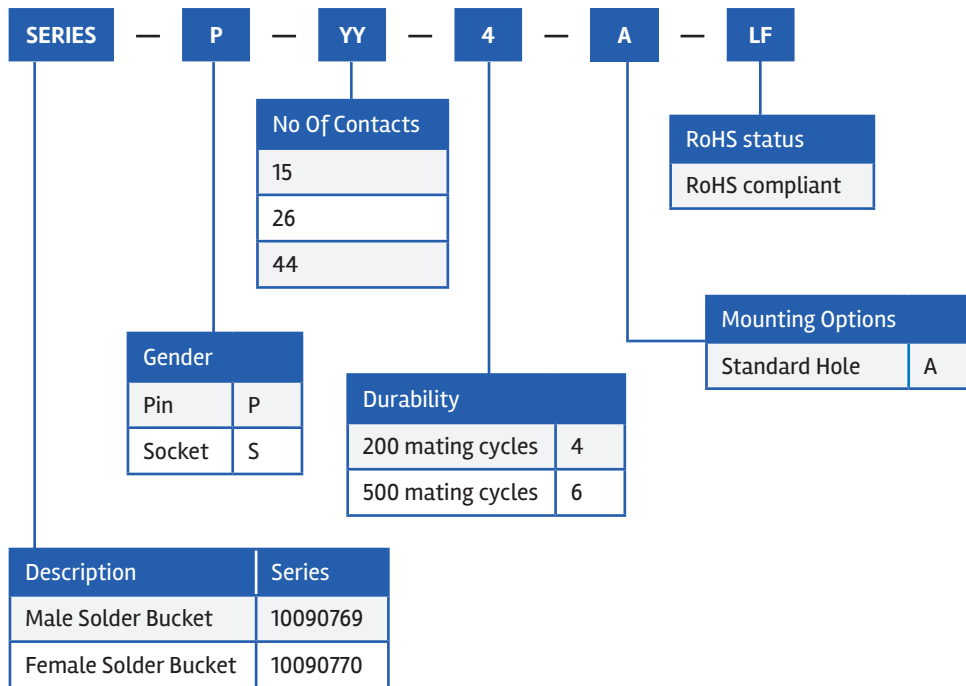




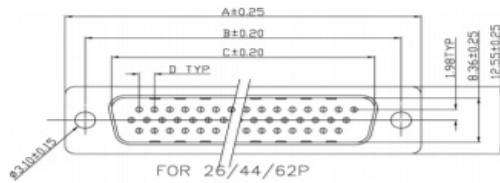
## ► D-Subminiature High Density Connectors

# HIGH DENSITY D-SUBMINIATURE SOLDER BUCKET

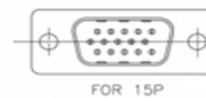
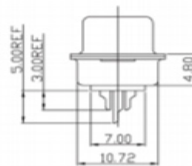
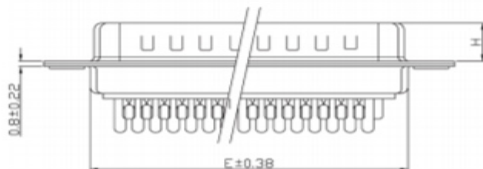
## ORDERING INFORMATION



## DIMENSION



Pos.	Part Number	A	B	C	D	E	H
15P	10090769-P15*ALF	30.81	24.99	16.92	19.10	2.29	5.9 +0.25 -0
26P	10090769-P26*ALF	39.24	33.32	25.25	27.75	2.29	5.9 +0.25 -0
44P	10090769-P44*ALF	53.04	47.04	38.96	41.30	2.29	5.9 +0.25 -0



## ACCESSORIES (HOODS)

Plastic: Core Range PNs	Metalised: Core Range PNs	Metallic: Core Range PNs
86303637BLF	863093C09MLF	8655MH0901BLF
86303638BLF	863093C15MLF	8655MH1501BLF
86303639BLF	863093C25MLF	8655MH2501BLF

Part Description	Part Number
D-Sub High density straight 15 way solder pin	10090928-P154VLF
D-Sub High density straight 26 way solder pin	10090928-P264VLF
D-Sub High density straight 44 way solder pin	10090928-P444VLF
D-Sub High density straight 15 way solder socket	10090929-S154VLF
D-Sub High density straight 26 way solder socket	10090929-S264VLF
D-Sub High density straight 44 way solder socket	10090929-S444VLF
D-Sub High density straight 15 way solder pin	10090928-P154XLF
D-Sub High density straight 26 way solder pin	10090928-P264XLF
D-Sub High density straight 44 way solder pin	10090928-P444XLF
D-Sub High density straight 15 way solder socket	10090929-S154XLF
D-Sub High density straight 26 way solder socket	10090929-S264XLF
D-Sub High density straight 44 way solder socket	10090929-S444XLF
D-Sub High density right angle 15 way solder pin	10090926-P154VLF
D-Sub High density right angle 26 way solder pin	10090926-P264VLF
D-Sub High density right angle 44 way solder pin	10090926-P444VLF
D-Sub High density right angle 15 way solder socket	ICD15S13E4GV00LF
D-Sub High density right angle 26 way solder socket	ICD26S13E4GV00LF
D-Sub High density right angle 44 way solder socket	ICD44S13E4GV00LF
D-Sub High density right angle 15 way solder pin	10090926-P154XLF
D-Sub High density right angle 26 way solder pin	10090926-P264XLF
D-Sub High density right angle 44 way solder pin	10090926-P444XLF

## ▶ D-Subminiature High Density Connectors

### PART NUMBER LIST

Part Description	Part Number
D-Sub High density right angle 15 way solder socket	ICD15S13E4GX00LF
D-Sub High density right angle 26 way solder socket	ICD26S13E4GX00LF
D-Sub High density right angle 44 way solder socket	ICD44S13E4GX00LF
D-Sub High density 15 way solder bucket pin	10090769-P154ALF
D-Sub High density 26 way solder bucket pin	10090769-P264ALF
D-Sub High density 44 way solder bucket pin	10090769-P444ALF
D-Sub High density 15 way solder bucket socket	10090770-S154ALF
D-Sub High density 26 way solder bucket socket	10090770-S264ALF
D-Sub High density 44 way solder bucket socket	10090770-S444ALF

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