



# Surplug Micro Clear™

Neutral displacement needlefree IV connector technology proven to help minimize bacterial transfer and colonization



# Surplug Micro Clear: the clear choice to visualize flushing and help reduce bloodstream infection risk

Surplug Micro Clear combines proven Clave™ technology with a clear housing to help you visualize connector flushing after blood draws or administration while providing an effective microbial barrier against bacteria transfer and contamination. Ideal for a wide range of clinical applications and patient populations, Surplug Micro Clear is the optimal facility-wide needlefree IV connector.



## Help Reduce Risk of CRBSIs

Creates a mechanically closed system prohibiting microbial ingress to help minimize infection risks.



## Visualize Connector Flushing

The clear housing of the Surplug Micro Clear allows for visualization of the internal fluid path upon flushing the connector.



## Use on all Catheters

Surplug Micro Clear is designed for use on peripheral, arterial, and central venous catheters for blood draws or administration of IV medications.



## No Change in Technique

By allowing a single protocol to be used throughout the hospital, Surplug Micro Clear minimizes clinical training and in-servicing, while enhancing patient safety.



## Silicone Seal and Internal Cannula Minimizes Point of Entry for Bacteria

Specifically designed to minimize contact between the connector's external surface and the internal fluid path upon luer activation, Surplug Micro Clear needlefree IV connectors minimize entry points for bacteria. Several studies have attributed this feature to a reduction in bacterial contaminants passed through the connector.<sup>1,2,3,4</sup>

## Split Septum

Surplug MicroClear's normally closed swabbable split septum design is a preferred feature for needlefree connectors.<sup>5</sup>

## Straight Fluid Path

Surplug Micro Clear's straight fluid path allows for efficient clearing of medications, blood, and blood residual with low flush volumes.<sup>6,7</sup>

## Minimal Residual Volume

Surplug MicroClear's minimal residual volume allows for lower flush volumes.

## Clear Housing

A clear housing lets you see whether you have completely flushed the connector after blood draws or administration.

# Needfree Connectors

Surplug Micro Clear™ Connector



Item	Description	Priming Vol.	Qty/Case
066-MC100	Surplug Micro Clear™ Connector		100



066-MH-10	Surplug Micro Clear™ Connector IV Bag Access Device		50
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066-MH-50	Surplug Micro Clear™ Connector Multi-Dose Vial Access Spike		50
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## Extension Sets



Item	Description	Priming Vol.	Qty/Case
066-ET31010	Surplug™ CL Extension Tube 10 cm (4") Smallbore, Rotating Luer	0.16	50



066-ET32010	Surplug™ CL Extension Tube 18 cm (7") Smallbore, Clamp, Rotating Luer	0.25	50
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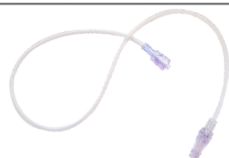
066-ET51010	Surplug™ CL Extension Tube 10 cm (4") Rotating Luer	0.38	50
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066-ET52010	Surplug™ CL Extension Tube 18 cm (7") Rotating Luer	0.69	50
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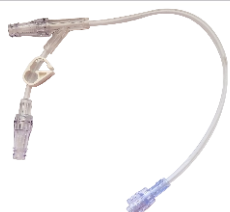
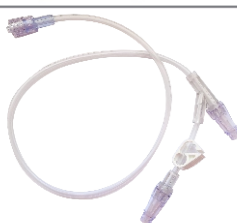


066-ET55010	Surplug™ CL Extension Tube 51 cm (20") Rotating Luer	2.00	50
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066-ET35010	Surplug™ CL Extension Tube 51 cm (20") Small Bore, Rotating Luer	0.60	50
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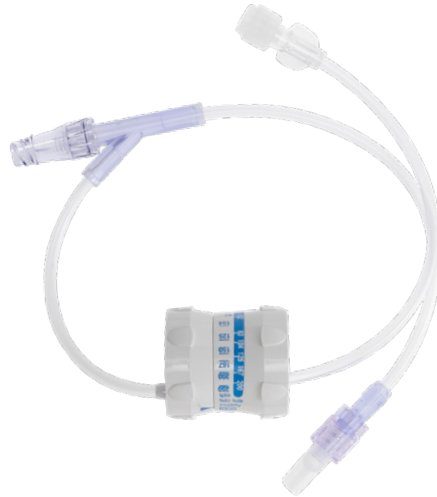
## Extension Sets

Item	Description	Priming Vol.	Qty/Case
066-ET3A010	Surplug™ CL Extension Tube 99 cm (39") Small Bore, Rotating Luer	1.20	50
			
066-ET3F010	Surplug™ CL Extension Tube 155 cm (61") Small Bore, Rotating Luer	1.80	50
			
066-EK53011A	Surplug™ CL Extension Tube 30 cm (12") Clamp, Rotating Luer	1.30	50
			
066-EK55011A	Surplug™ CL Extension Tube 51 cm (20") Clamp, Rotating Luer	2.20	50
			
066-MC4203-1	Surplug Micro Clear™ Extension Tube 16 cm (6") Clamp, Rotating Luer	0.78	50
			
066-MC4348	Surplug Micro Clear™ Extension Tube 23 cm (9") 2 Clamps, Rotating Luer	1.20	50
			

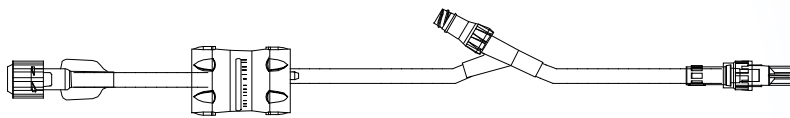
## Extension Sets

Item	Description	Priming Vol.	Qty/Case
066-ET220L2A	Surplug Micro Clear™ Extension Tube 30 cm (12") Rotating Luer	1.50	50
			
066-EH41811D	Surplug™ CL Extension Tube 18 cm (7") Clamp, Rotating Luer	0.69	50
			
066-ED31512B	Surplug™ CL Extension Tube 15 cm (6") Smallbore Bifuse, 2 Clamps, Rotating Luer	0.36	550
			
066-EF31413B	Surplug™ CL Extension Tube 14 cm (5.5") Smallbore Trifuse, 3 Clamps, Rotating Luer	0.49	50
			

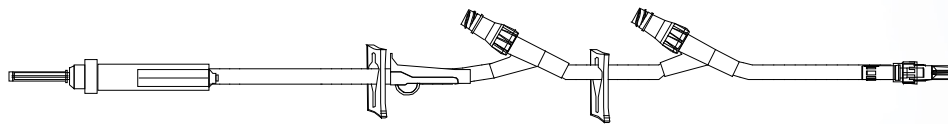
## Speciality Sets



Item	Description	PV	Qty/Case
066-MC9804	Surplug Micro Clear™ Extension Tube 41 cm (16") Flow Controller, Rotating Luer	2.10	50



066-MC6042	Surplug™ CL Blood Tube 239 cm (94") 20 Drop, w/200 Micron Filter, Rotating Luer	17.10	50
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## Surplug Micro Clear™



Surplug's saline flush option is designed to help reduce the risk of Heparin induced Thrombocytopenia (HIT)

### Technical Specifications

Residual Volume	0.04* mL
Flow rate at Gravity	165 mL/minute
High Pressure Resealability	≥ 60 psig (5 sec); 45 psig (30 sec)
Extended Use	Performance after seven (7) days and 700 repeat activations

\*when connected to the female hub of an IV set or vascular access device

### Drug and Biological Compatibility

Chemotherapy	Yes
Alcohol	Yes
Lipids	Yes
Blood	Yes

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