

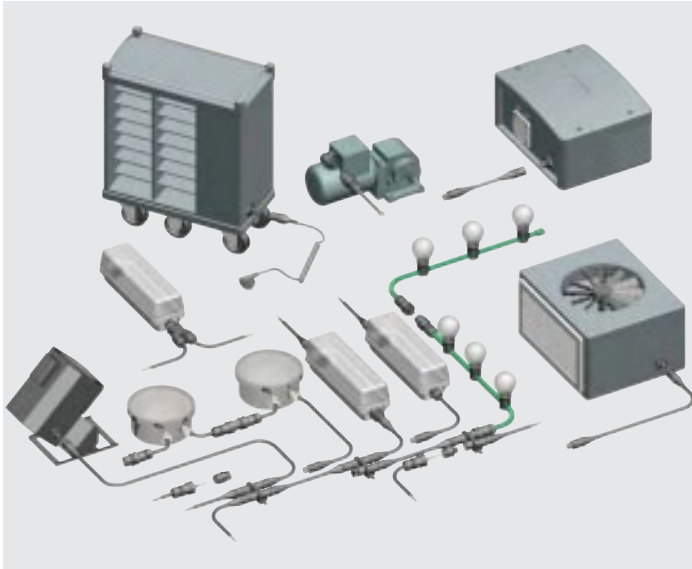
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RST 20i3

Mains, 3 pole

Application example



General

The 3 pole connectors come in two variations. The standard version for general mains applications, and a green coding for applications in multi-phase systems.

Both connectors are mechanically coded. This means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear separation of different applications without having to redo any incorrect connections. The color of the connectors indicates the links that belong together.

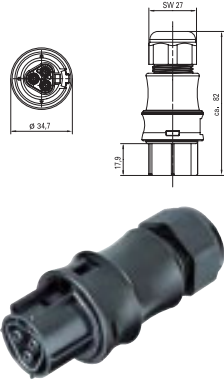


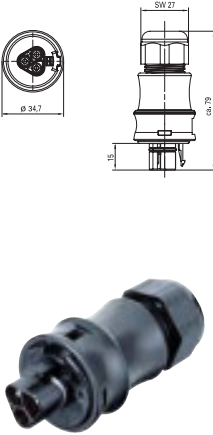


RST 20i3

Coding

					Application		Mains 250 V	Mains 250/400 V
					Mechanical coding		L, N, ground	1, 2, ground
Name	Description	Connection style	Strain relief housing	Connection points per pole	gray	black	green	
Connectors	1 x cable entry	Screw technology Spring clamp techn.	yes	1				
	2 x cable entry	Screw technology Spring clamp techn.	yes	2				
Distribution units	Distribution block 1 E/ 3 A							
	RST compact distributor/ multi distributor				available on request	available on request	available on request	
	Individual distribution box				available on request	available on request	available on request	
Cable assemblies	Connection cable Male – Free end	pre-assembled	pre-assembled	pre-assembled				
	Connection cable Female – Free end							
	Extension cable Male – Female							
	Connection cable Ground – Female							
	Connection cable L'ontour European plug SK II – Female							

Connectors

Connector for cables of Ø 6 – 10 and 10 – 14 mm

				<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. Unassembled with cable gland¹⁾ and locking device.</p> <p>See "Technical Data" for sheath and insulation strip lengths as well as the ferrules to be used.</p>		<p>With screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². Unassembled with cable gland¹⁾ and locking device.</p> <p>See "Technical Data" for sheath and insulation strip lengths.</p>	
Application	Coding	Cable diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Female connector							
Mains 250 V		6 – 10 mm	gray black	96.031.0053.0 96.031.0053.1		96.031.4053.0 96.031.4053.1	
		10 – 14 mm	gray black	96.031.0153.0 96.031.0153.1		96.031.4153.0 96.031.4153.1	
		13 – 18 mm	gray black				
Mains 250/400 V		6 – 10 mm		96.031.0055.7		96.031.4055.7	
		10 – 14 mm	green	96.031.0155.7		96.031.4155.7	
		13 – 18 mm					
Application	Coding	Cable diameter	Color	Part No.	Std. Pack	Part No.	Std. Pack
Male connector							
Mains 250 V		6 – 10 mm	gray black	96.032.0053.0 96.032.0053.1		96.032.4053.0 96.032.4053.1	
		10 – 14 mm	gray black	96.032.0153.0 96.032.0153.1		96.032.4153.0 96.032.4153.1	
		13 – 18 mm	gray black				
Mains 250/400 V		6 – 10 mm		96.032.0055.7		96.032.4055.7	
		10 – 14 mm	green	96.032.0155.7		96.032.4155.7	
		13 – 18 mm					
						¹⁾ Cable gland with bend protection available on request ²⁾ With wire protection available on request	

Connector for cable Ø 13 – 18 mm

Splitter connector

Part No.		Std. Pack		Part No.		Std. Pack					
<p>With screw connection²⁾ for rigid, fine-stranded and stranded cables of max. 4.0 mm². Unassembled with cable gland and locking device.</p> <p>See "Technical Data" for sheath and insulation strip lengths.</p>				<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. Unassembled with cable gland¹⁾ and locking device.</p> <p>See "Technical Data" for sheath and insulation strip lengths as well as the ferrules to be used.</p>				<p>With screw connection²⁾ for rigid, fine-stranded and stranded cables of 0.75 – 2.5 mm². Unassembled with cable gland¹⁾ and locking device.</p> <p>See "Technical Data" for sheath and insulation strip lengths.</p>			
96.031.4553.0				96.031.0253.0				96.031.4253.0			
96.031.4553.1				96.031.0253.1				96.031.4253.1			
96.031.0353.0				96.031.0353.0				96.031.4353.0			
96.031.0353.1				96.031.0353.1				96.031.4353.1			
96.031.4555.7				96.031.0255.7				96.031.4255.7			
96.031.4555.7				96.031.0355.7				96.031.4255.7			
Part No.		Std. Pack		Part No.		Std. Pack					
96.032.4553.0											
96.032.4553.1											
96.032.4555.7											







Appliance connectors

Appliance connector M25, standard				Appliance connector M20, modular, straight					
		<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland.</p>	<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M25x1.5 thread, external cable gland.</p>	<p>igid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>	<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>				
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
Female connector		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.		See "Technical Data" for insulation strip lengths and the ferrules to be used.			
Mains 250 V 	gray black	96.031.1053.0 96.031.1053.1		96.031.5053.0 96.031.5053.1		96.031.2053.0 96.031.2053.1	96.031.6053.0 96.031.6053.1		
Mains 250/400 V 	green	96.031.1055.7		96.031.5055.7		96.031.2055.7	96.031.6055.7		
Application	Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack		
Male connector									
Mains 250 V 	gray black	96.032.1053.0 96.032.1053.1		96.032.5053.0 96.032.5053.1		96.032.2053.0 96.032.2053.1	96.032.6053.0 96.032.6053.1		
Mains 250/400 V 	green	96.032.1055.7		96.032.5055.7		96.032.2055.7	96.032.6055.7		

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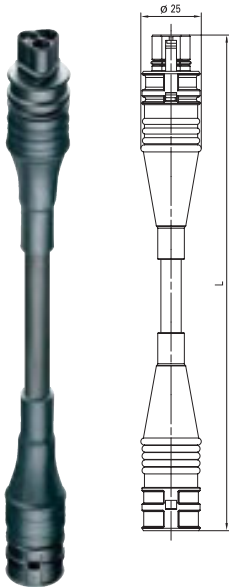
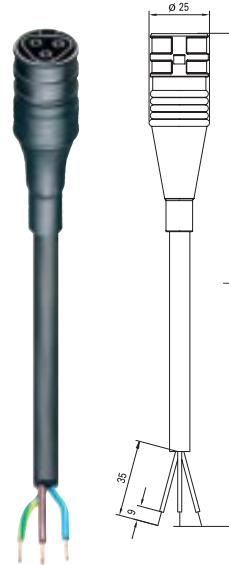
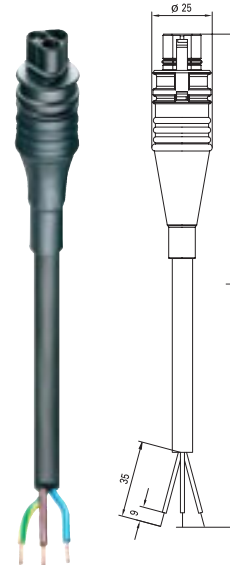
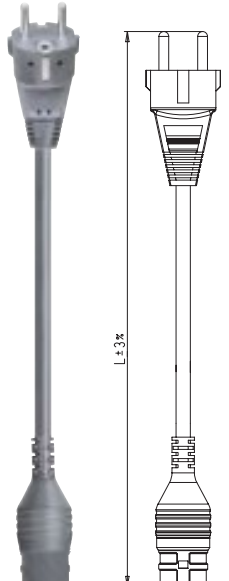




Appliance connector M16, modular, straight

Appliance connector M20, modular, angled

Application		Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Female connector 			<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.</p>		<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>	
			See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.	
Mains 250 V		gray	96.031.2153.0		96.031.6153.0		96.033.2053.0		96.033.6053.0	
 L, N, ground		black	96.031.2153.1		96.031.6153.1		96.033.2053.1		96.033.6053.1	
Mains 250/400 V		green	96.031.2155.7		96.031.6155.7		96.033.2055.7		96.033.6055.7	
 1, 2, ground										
Application		Color	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
Male connector 			<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M16x1.5 thread, internal cable gland.</p>		<p>With spring clamp connections for rigid cables of 0.5 – 2.5 mm², fine-stranded cables of 0.5 – 1.5 mm² with ferrules, stranded cables of 0.75 – 1.5 mm² with ferrules. 2 connection points per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>		<p>With screw connections for rigid, fine-stranded and stranded cables of 0.75 – 4.0 mm². 1 connection point per pole. With locking device. Fixing in position guaranteed by flattening the thread. With M20x1.5 thread, internal cable gland.</p>	
			See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.		See "Technical Data" for insulation strip lengths and the ferrules to be used.		See "Technical Data" for insulation strip lengths.	
Mains 250 V		gray	96.032.2153.0		96.032.6153.0		96.034.2053.0		96.034.6053.0	
 L, N, ground		black	96.032.2153.1		96.032.6153.1		96.034.2053.1		96.034.6053.1	
Mains 250/400 V		green	96.032.2155.7		96.032.6155.7		96.034.2055.7		96.034.6055.7	
 1, 2, ground										


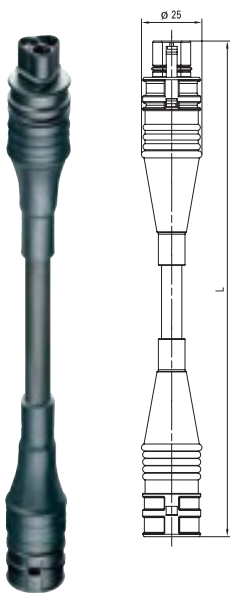
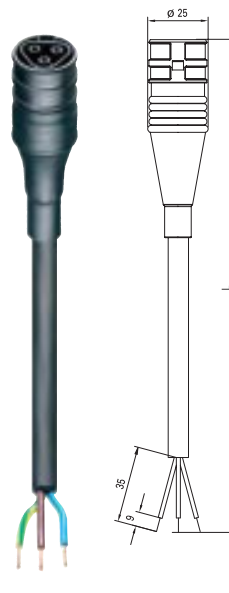
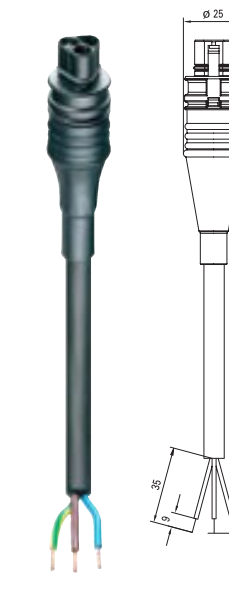
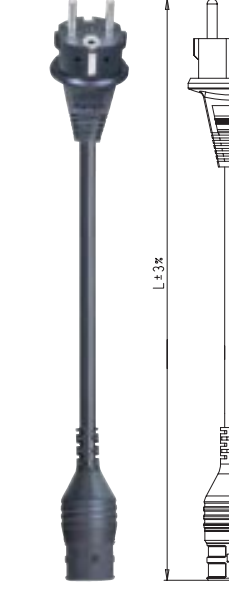
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Cable assemblies, 1.5 mm²

		Extension cable	Connection cable	Connection cable	Mains connection cable
		H05VV-F 3G1,5 Female – Male with locking device	H05VV-F 3G1,5 Female – Free end with ultrasonically welded wire ends	H05VV-F 3G1,5 Male – Free end with ultrasonically welded wire ends and locking device	H05VV-F 3G1,5 mm² Safety plug RST female connector
			Cable strip length: 35 mm Insulation strip length: 9 mm	Cable strip length: 35 mm Insulation strip length: 9 mm	
Cable assemblies  N = bl L = br ground = gn/yl Cable ¹⁾ and shrinkage tube in black					
	Length ²⁾	Part No. Std. Pack	Part No. Std. Pack	Part No. Std. Pack	
Mains 250 V L, N, ground  Female  Male		Black insulation 96.232.1000.1 96.232.2000.1 96.232.3000.1 96.232.4000.1 96.232.5000.1 96.232.6000.1 96.232.7000.1 96.232.8000.1 Gray insulation 96.232.1000.0 96.232.2000.0 96.232.3000.0 96.232.4000.0 96.232.5000.0 96.232.6000.0 96.232.7000.0 96.232.8000.0	96.232.1003.1 96.232.2003.1 96.232.3003.1 96.232.4003.1 96.232.5003.1 96.232.6003.1 96.232.7003.1 96.232.8003.1	96.232.1004.1 96.232.2004.1 96.232.3004.1 96.232.4004.1 96.232.5004.1 96.232.6004.1 96.232.7004.1 96.232.8004.1	All gray 99.706.0000.7 1.5 m 99.707.0000.7 2.5 m
Mains 250/400 V 1, 2, ground  Female  Male		Green insulation 96.232.1001.7 96.232.2001.7 96.232.3001.7 96.232.4001.7 96.232.5001.7 96.232.6001.7 96.232.7001.7 96.232.8001.7	96.232.1005.7 96.232.2005.7 96.232.3005.7 96.232.4005.7 96.232.5005.7 96.232.6005.7 96.232.7005.7 96.232.8005.7	96.232.1006.7 96.232.2006.7 96.232.3006.7 96.232.4006.7 96.232.5006.7 96.232.6006.7 96.232.7006.7 96.232.8006.7	


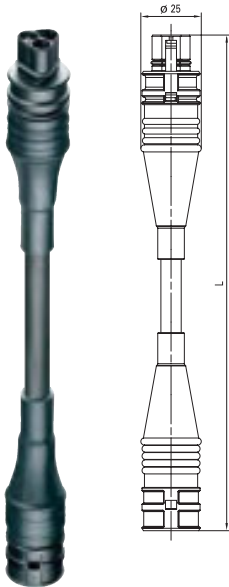
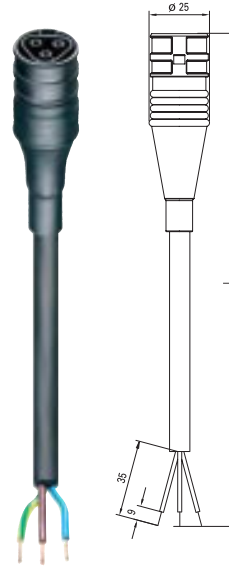
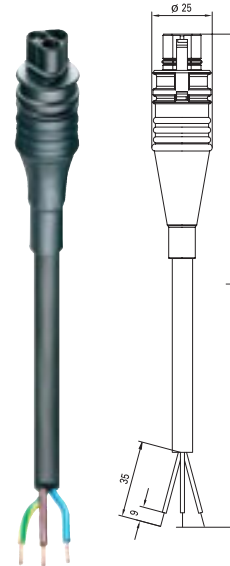




¹⁾ Other cables available on request
²⁾ Other lengths available on request

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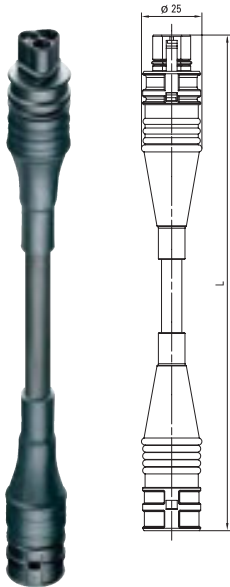
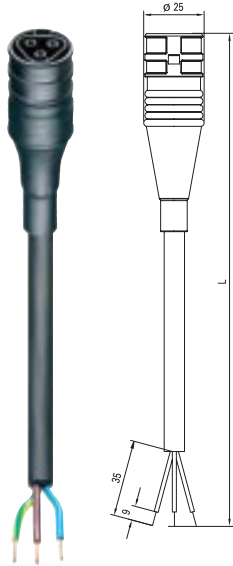
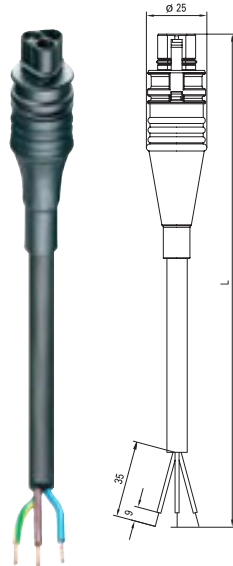


	Extension cable	Connection cable	Connection cable	Mains connection cable	Mains, 3 pole connection cable																																																																																																																																																																																																																																																											
	H07RN-F 3G1,5 Female – Male with locking device	H07RN-F 3G1,5 Female – Free end with ultrasonically welded wire ends	H07RN-F 3G1,5 Male – Free end with ultrasonically welded wire ends and locking device	H07RN-F 3G1,5 Safety plug with splash guard RST female connector																																																																																																																																																																																																																																																												
		Cable strip length: 35 mm Insulation strip length: 9 mm	Cable strip length: 35 mm Insulation strip length: 9 mm																																																																																																																																																																																																																																																													
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Pack	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	Mains 250 V	Black insulation						All black		L, N, ground	96.232.1030.1		96.232.1033.1		96.232.1034.1		99.704.0000.7	1.5 m		96.232.2030.1		96.232.2033.1		96.232.2034.1		99.705.0000.7	2.5 m		96.232.3030.1		96.232.3033.1		96.232.3034.1					96.232.4030.1		96.232.4033.1		96.232.4034.1					96.232.5030.1		96.232.5033.1		96.232.5034.1					96.232.6030.1		96.232.6033.1		96.232.6034.1					96.232.7030.1		96.232.7033.1		96.232.7034.1					96.232.8030.1		96.232.8033.1		96.232.8034.1					Gray insulation									96.232.1030.0		96.232.1033.0		96.232.1034.0					96.232.2030.0		96.232.2033.0		96.232.2034.0					96.232.3030.0		96.232.3033.0		96.232.3034.0					96.232.4030.0		96.232.4033.0		96.232.4034.0					96.232.5030.0		96.232.5033.0		96.232.5034.0					96.232.6030.0		96.232.6033.0		96.232.6034.0					96.232.7030.0		96.232.7033.0		96.232.7034.0					96.232.8030.0		96.232.8033.0		96.232.8034.0					Green insulation								Mains 250/400 V	96.232.1031.7		96.232.1035.7		96.232.1036.7				1, 2, ground	96.232.2031.7		96.232.2035.7		96.232.2036.7					96.232.3031.7		96.232.3035.7		96.232.3036.7					96.232.4031.7		96.232.4035.7		96.232.4036.7					96.232.5031.7		96.232.5035.7		96.232.5036.7					96.232.6031.7		96.232.6035.7		96.232.6036.7					96.232.7031.7		96.232.7035.7		96.232.7036.7					96.232.8031.7		96.232.8035.7		96.232.8036.7						
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¹⁾ Other cables available on request
²⁾ Other lengths available on request

Cable assemblies, 2.5 mm²

		Extension cable		Connection cable		Connection cable		
		H05VV-F 3G2,5		H05VV-F 3G2,5		H05VV-F 3G2,5		
		Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device		
				Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm		
<p>Cable assemblies</p>  <p>N = bl L = br ground = gn/yl</p> <p>Cable¹⁾ and shrinkage tube in black</p>								
		Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
<p>Mains 250 V</p> <p>L, N, ground</p>  <p>Female</p>  <p>Male</p>	1.0 m	Black insulation 96.233.1000.1		96.233.1003.1		96.233.1004.1		
	2.0 m	96.233.2000.1		96.233.2003.1		96.233.2004.1		
	3.0 m	96.233.3000.1		96.233.3003.1		96.233.3004.1		
	4.0 m	96.233.4000.1		96.233.4003.1		96.233.4004.1		
	5.0 m	96.233.5000.1		96.233.5003.1		96.233.5004.1		
	6.0 m	96.233.6000.1		96.233.6003.1		96.233.6004.1		
	7.0 m	96.233.7000.1		96.233.7003.1		96.233.7004.1		
	8.0 m	96.233.8000.1		96.233.8003.1		96.233.8004.1		
	1.0 m	Gray insulation 96.233.1000.0		96.233.1003.0		96.233.1004.0		
	2.0 m	96.233.2000.0		96.233.2003.0		96.233.2004.0		
	3.0 m	96.233.3000.0		96.233.3003.0		96.233.3004.0		
	4.0 m	96.233.4000.0		96.233.4003.0		96.233.4004.0		
	5.0 m	96.233.5000.0		96.233.5003.0		96.233.5004.0		
	6.0 m	96.233.6000.0		96.233.6003.0		96.233.6004.0		
	7.0 m	96.233.7000.0		96.233.7003.0		96.233.7004.0		
	8.0 m	96.233.8000.0		96.233.8003.0		96.233.8004.0		
<p>Mains 250/400 V</p> <p>1, 2, ground</p>  <p>Female</p>  <p>Male</p>	1.0 m	Green insulation 96.233.1001.7		96.233.1005.7		96.233.1006.7		
	2.0 m	96.233.2001.7		96.233.2005.7		96.233.2006.7		
	3.0 m	96.233.3001.7		96.233.3005.7		96.233.3006.7		
	4.0 m	96.233.4001.7		96.233.4005.7		96.233.4006.7		
	5.0 m	96.233.5001.7		96.233.5005.7		96.233.5006.7		
	6.0 m	96.233.6001.7		96.233.6005.7		96.233.6006.7		
	7.0 m	96.233.7001.7		96.233.7005.7		96.233.7006.7		
	8.0 m	96.233.8001.7		96.233.8005.7		96.233.8006.7		

¹⁾ Other cables available on request
²⁾ Other lengths available on request

		Extension cable		Connection cable		Connection cable			
		H07RN-F 3G2,5		H07RN-F 3G2,5		H07RN-F 3G2,5			
		Female – Male with locking device		Female – Free end with ultrasonically welded wire ends		Male – Free end with ultrasonically welded wire ends and locking device			
				Cable strip length: 35 mm Insulation strip length: 9 mm		Cable strip length: 35 mm Insulation strip length: 9 mm			
Cable assemblies  N = bl L = br ground = gn/yl Cable ¹⁾ and shrinkage tube in black									
		Length ²⁾	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	
Mains 250 V L, N, ground  Female  Male	Black insulation 96.233.1030.1 96.233.2030.1 96.233.3030.1 96.233.4030.1 96.233.5030.1 96.233.6030.1 96.233.7030.1 96.233.8030.1		96.233.1033.1 96.233.2033.1 96.233.3033.1 96.233.4033.1 96.233.5033.1 96.233.6033.1 96.233.7033.1 96.233.8033.1		96.233.1034.1 96.233.2034.1 96.233.3034.1 96.233.4034.1 96.233.5034.1 96.233.6034.1 96.233.7034.1 96.233.8034.1				
	Gray insulation 96.233.1030.0 96.233.2030.0 96.233.3030.0 96.233.4030.0 96.233.5030.0 96.233.6030.0 96.233.7030.0 96.233.8030.0		96.233.1033.0 96.233.2033.0 96.233.3033.0 96.233.4033.0 96.233.5033.0 96.233.6033.0 96.233.7033.0 96.233.8033.0		96.233.1034.0 96.233.2034.0 96.233.3034.0 96.233.4034.0 96.233.5034.0 96.233.6034.0 96.233.7034.0 96.233.8034.0				
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¹⁾ Other cables available on request
²⁾ Other lengths available on request

Distribution units

		Distribution block, 1E/3A		Distribution block, 1E/3A	
		with mounting option with locking levers 1 input, male connector, 3 pole 3 outputs, female connector, 3 pole		without mounting option with locking levers 1 input, male connector, 3 pole 3 outputs, female connector, 3 pole	
Color	Part No.	Std. Pack	Part No.	Std. Pack	
Mains 250 V L, N, ground	gray black	96.030.0153.0 96.030.0153.1	96.030.0253.0 96.030.0253.1		
Mains 250/400 V 1, 2, ground	green	96.030.0155.7	96.030.0255.7		

RST compact distributor

- Equip as needed with M25 appliance connectors 2 to 5 pole
- 1 input; 3 outputs
- pre-wired with 2.5 mm²
- with mounting option

RST multi distributor

- Equip as needed with M25 appliance connectors 2 to 5 pole
- 1 input; 7 outputs (max.)
- Safety fuses 6.3 or 10 A can be integrated
- pre-wired with 2.5 mm²
- with mounting option

Distribution box

The individual distribution boxes offer optimum solutions for your specific application. The distributors are available in different dimensions and can accept DIN rail mounted devices and terminal blocks in any combination. Further connection to the consumer devices is carried out by the **gesis** IP+ connector system. Distribution blocks manufactured and tested according to specific customer requirements can be delivered to the construction site as pre-assembled components. The locking devices are already integrated.

Part No. Std. Pack

Part No. Std. Pack

Part No. Std. Pack



Forecasted for the 4th quarter of 2006

Forecasted for the 4th quarter of 2006

Available on request