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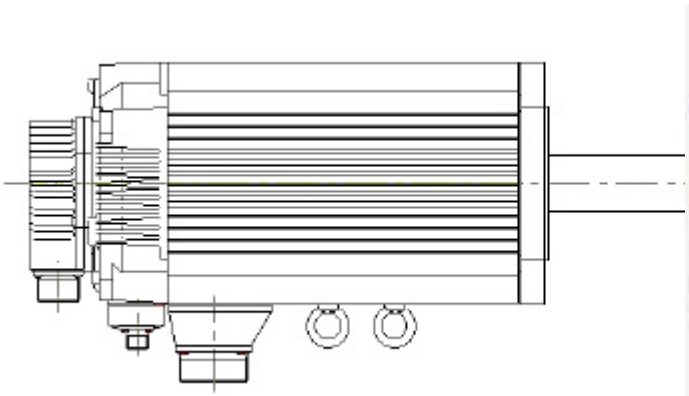
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YASKAWA

Mechatronic Solutions



S-II Series
SGM_H
SGDH
-Temporary Version-
Specification of Connectors and Cables





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YASKAWA

Mechatronic Solutions



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1 SGMGH/SH 400V

1.1 Motor Cable for SGMGH-xxDxx and SGMSH-xxDxx

Part-No	Description	Stock
JZSP-CMM02D15-03G	Motor cable for SGMGH-05 to 15; SGMSH-10 to 20, 3m	CP
JZSP-CMM02D15-05G	Motor cable for SGMGH-05 to 15; SGMSH-10 to 20, 5m	CP
JZSP-CMM02D15-10G	Motor cable for SGMGH-05 to 15; SGMSH-10 to 20, 10m	CP
JZSP-CMM02D15-15G	Motor cable for SGMGH-05 to 15; SGMSH-10 to 20, 15m	CP
JZSP-CMM02D15-20G	Motor cable for SGMGH-05 to 15; SGMSH-10 to 20, 20m	CP
JZSP-CMM02D30-03G	Motor cable for SGMGH-20 to 30, SGMSH-30 to 50, 3m	CP
JZSP-CMM02D30-05G	Motor cable for SGMGH-20 to 30, SGMSH-30 to 50, 5m	CP
JZSP-CMM02D30-10G	Motor cable for SGMGH-20 to 30, SGMSH-30 to 50, 10m	CP
JZSP-CMM02D30-15G	Motor cable for SGMGH-20 to 30, SGMSH-30 to 50, 15m	CP
JZSP-CMM02D30-20G	Motor cable for SGMGH-20 to 30, SGMSH-30 to 50, 20m	CP
JZSP-CMM02D44-03G	Motor cable for SGMGH-44, 3m	CP
JZSP-CMM02D44-05G	Motor cable for SGMGH-44, 5m	CP
JZSP-CMM02D44-10G	Motor cable for SGMGH-44, 10m	CP
JZSP-CMM02D44-15G	Motor cable for SGMGH-44, 15m	CP
JZSP-CMM02D44-20G	Motor cable for SGMGH-44, 20m	CP
JZSP-CMM02D55-03G	Motor cable for SGMGH-55, 3m	CP
JZSP-CMM02D55-05G	Motor cable for SGMGH-55, 5m	CP
JZSP-CMM02D55-10G	Motor cable for SGMGH-55, 10m	CP
JZSP-CMM02D55-15G	Motor cable for SGMGH-55, 15m	CP
JZSP-CMM02D55-20G	Motor cable for SGMGH-55, 20m	CP
JZSP-CMM02D1A-03G	Motor cable for SGMGH-75 to 1A, 3m	CP
JZSP-CMM02D1A-05G	Motor cable for SGMGH-75 to 1A, 5m	CP
JZSP-CMM02D1A-10G	Motor cable for SGMGH-75 to 1A, 10m	CP
JZSP-CMM02D1A-15G	Motor cable for SGMGH-75 to 1A, 15m	CP
JZSP-CMM02D1A-20G	Motor cable for SGMGH-75 to 1A, 20m	CP
JZSP-CMM02D1E-03G	Motor cable for SGMGH-1E, 3m	CP
JZSP-CMM02D1E-05G	Motor cable for SGMGH-1E, 5m	CP
JZSP-CMM02D1E-10G	Motor cable for SGMGH-1E, 10m	CP
JZSP-CMM02D1E-15G	Motor cable for SGMGH-1E, 15m	CP
JZSP-CMM02D1E-20G	Motor cable for SGMGH-1E, 20m	CP

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1.2 Encoder Cable for SGMGH-xxDxx and SGMSH-xxAxx

Part-No	Description	Stock
JZSP-CMP02-03G	Encorder cable with connector both end (3m)	CP
JZSP-CMP02-05G	Encorder cable with connector both end (5m)	CP
JZSP-CMP02-10G	Encorder cable with connector both end (10m)	CP
JZSP-CMP02-15G	Encorder cable with connector both end (15m)	CP
JZSP-CMP02-20G	Encorder cable with connector both end (20m)	CP

1.3 Motor Connector for SGMGH-xxDxx and SGMSH-xxDxx

Part-No	Description	Stock
CVS08DA18-10SPG16	Motor connector 1 for SGMGH-05 to 15; SGMSH-10 to 20	CP
CVS08DA22-22SPG21	Motor connector 2 for SGMGH-20 to 30, SGMSH-30 to 50	CP
CVS08ADA32-17SCCGPG29F5	Motor connector 3 for SGMGH-55 to SGMGH-1ED	CP

1.4 Brake Connector for SGMGH-xxDxx and SGMSPH-xxDxx

Part-No	Description	Stock
CVS08DA10SL-3SPG9	Brake connector	CP

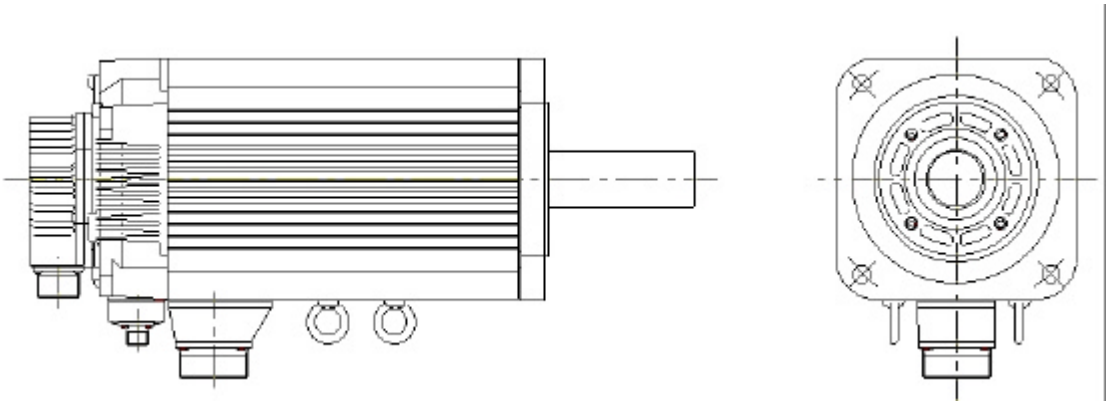
1.5 Encoder Connector for SGMGH-xxDxx and SGMSH-xxDxx

Part-No	Description	Stock
CVS08DA20-29SPG13	Encoder connector for SGMGH and SGMSH Motors	CP
JZSP-CMP9-1	Encoder connector on Servopack side (2CN)	CP

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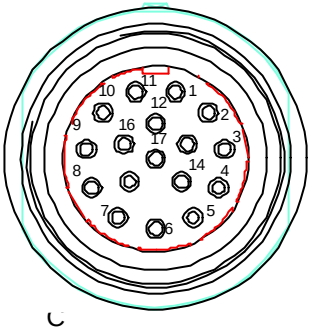


1.6 Motor Drawing SGMGH/SH 400V (Example)



1.6.1 Encoder Plug (Front View)

Encoder Connector	
Pin	**Output**
1	0V (16 Bit Absolute Encoder)
2	3,6V (16 Bit Absolute Encoder)
3	Data +
4	Data -
5~7, 10~17	Free
8	+5V (Power Supply)
9	0V (Power Supply)
Connector Case	FG (Frame Ground)

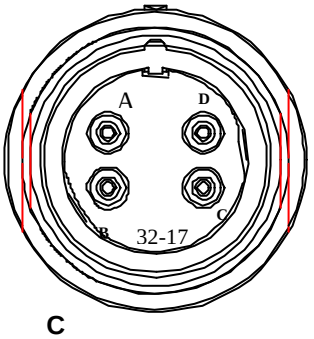


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VS08DA20-29SPG13...

1.6.2 Motor Plug 400V (Front View)

Motor Connector	
Pin	**Output**
A	Phase U
B	Phase V
C	Phase W
D	FG (Frame Ground)

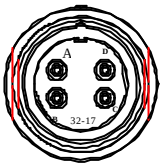


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VS08AD...

1.6.3 Brake Plug 24VDC (Front View)

Motor Connector	
Pin	**Output**
A	+24VDC
B	0VDC
FG	FG (Frame Ground)



VS08AD...

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1.7 Encoder Cable for Servomotors SGMGH / SGMSH

Part No.: JZSP-CMP02-##G: Encoder Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Encoder side

No.	Description
1	0V (Battery)
2	3.6V (Battery)
3	DATA +
4	DATA -
5~7	Free
8	+5V (Power supply)
9	0V (Power supply)
10~17	Free
Connector case	Frame ground

Terminal connection Servopack side

No.	Description
1	+5V (Power Supply)
2	0V (Power Supply)
3	3.6V (Battery)
4	0V (Battery)
5	DATA +
6	DATA -
Connector case	Frame ground

1.8 Motor Cable for Servomotors SGMGH-05D## - 18D## and SGMSH-10D## - 20D##

Part No.: JZSP-CMM02D15-##G: Motor Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Motor side

No.	Description
A	Phase U
B	Phase V
C	Phase W
D	Frame ground

Terminal connection Servopack side

No.	Description
1	U
2	U
3	W
4	FG

1.9 Motor Cable for Servomotors SGMGH-20D## - 30D## and SGMSH-30D## - 50D##

Part No.: JZSP-CMM02D30-##G: Motor Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Motor side

No.	Description
A	Phase U
B	Phase V
C	Phase W
D	Frame ground

Terminal connection Servopack side

No.	Description
1	U
2	U
3	W
4	FG

1.10 Motor Cable for Servomotors SGMGH-44D##

Part No.: JZSP-CMM02D44-##G: Motor Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Motor side

No.	Description
A	Phase U
B	Phase V
C	Phase W
D	Frame ground

Terminal connection Servopack side

No.	Description
1	U
2	U
3	W
4	FG

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1.11 Motor Cable for Servomotors SGMGH-55D##

Part No.: JZSP-CMM02D55-##G: Motor Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Motor side

No.	Description
A	Phase U
B	Phase V
C	Phase W
D	Frame ground

Terminal connection Servopack side

No.	Description
1	U
2	U
3	W
4	FG

1.12 Motor Cable for Servomotors SGMGH-75D## - 1AD##

Part No.: JZSP-CMM02D1A-##G: Motor Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Motor side

No.	Description
A	Phase U
B	Phase V
C	Phase W
D	Frame ground

Terminal connection Servopack side

No.	Description
1	U
2	U
3	W
4	FG

1.13 Motor Cable for Servomotors SGMGH-1ED##

Part No.: JZSP-CMM02D1E-##G: Motor Cable with connectors on both end
(##: cable length, 03 = 3m: 05 = 5m; 10 = 10m; 15 = 15m & 20 = 20m)

Terminal connection Motor side

No.	Description
A	Phase U
B	Phase V
C	Phase W
D	Frame ground

Terminal connection Servopack side

No.	Description
1	U
2	U
3	W
4	FG

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1.14 Specification of Encoder Cable

Construction:	0,35mm²	0,25mm²
Conductor	: bare copper-wire 0,35 mm², flexible	bare copper-wire 0,25 mm², flexible
Insulation	: Polyesterelastomer 12Y	Polyesterelastomer 12Y
Colour	: white + brown	green/yellow, grey/pink
Twisting	: two pairs	
Cabeling	: 2 cores + 2 pairs	
Wrapping	: insulationtape	
Shield	: braided tinned copper screen	
Wrapping	: Seperatingtape	
Jacket	: Polyurethan TMPU	
Colour	: black –dull-	
Printing (wt)	: ERNST + ENGRING VDE-REG-NR. 6589 2 x 0,35 + 2 x 2 x 0,25 90°C 300V #### -HALOGENFREE- (####: coded manufacture date)	
Overall diameter	: (6,0 ± 0,3) mm	

Electrical datas (at 20°C)			(0,25 mm²)		(0,35 mm²)
Conductor resistance		: ≤	82,0 Ω/km	: ≤	41,0 Ω/km
Insulation resistance		: >	200 MΩxkm		
Screen attenuation	up to 30MHz	:	45 dB (approxiamate value)		
	up to 1 GHZ	:	30 dB (approxiamate value)		
(Test methode acc. IEC 96-1 Amend. 2 (1993) A.5.6 „Line injection method“)					
Test voltage	(C/C)	:	2,0 kV_{eff}		
	(C/S)	:	1,0 kV_{eff}		
Operating voltage		:	300V		
Operating current (single cable) at ambient temperature					
			0,35mm²		0,25mm²
	20°C	: ≤	4,5 A	; : ≤	4,5 A
	30°C	: ≤	4,5 A	; : ≤	4,5 A
	40°C	: ≤	4,5 A	; : ≤	4,5 A
	50°C	: ≤	4,5 A	; : ≤	4,5 A
	60°C	: ≤	4,5 A	; : ≤	4,5 A
	70°C	: ≤	4,5 A	; : ≤	4,5 A

Temperature range	(Transport & storage)	: -70°C bis + 90°C
	(Installation & handling)	: -40°C bis + 90°C
	(Operating)	: -20°C bis + 80°C
Bending radius	(Operating)	: ≥ 3 x cable-∅
	(several times)	: ≥ 7,5 x cable-∅
	(several times optimum)	: ≥ 10 x cable-∅
Bending strength	(r= 10 x cable-∅ at 20°C)	: ≥ 5.000.000 cycles

reduced working life at higher operating temperatures.

Oil resistance	: acc. VDE 0282 part 10
Hydrolyse resistance	: acc. VDE 0282 part 10
Flame resistance	: acc. VDE 0472 part 804 condition B
Approbation	: VDE-expert evidence (VDE-REG-Nr.6589)

The jacket surface has low adhesion, this prevents a stickness by contact.
All materials are halogenfree.
Applicable for use in flexible chain cable holder systems.
Not for use outdoor or in earth
When used as control cable the relevant installation and/or applicance standards have to be regarded.

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1.15 Specification of the Motor cable 4 x 1,5 mm²

Type: Motor supply cable 4 x 1,5mm²

Construction:

Conductor	: bare copper-wire 1,5 mm², high flexible
Insulation	: Polyesterelastomer 12Y
Colour	: black with white numbers 1 – 3 + yellowgreen
Cabeling	: 4 cores with fillers
Wrapping	: insulationtape
Shield	: braided tinned copper screen
Wrapping	: Seperatingtape
Jacket	: Polyurethan TMPU
Colour	: black –dull-
Printing (wt)	: ERNST + ENGRING VDE-REG-NR. 6508 4 x 1,5 90°C 600/1000V #### -HALOGENFREE- (####: coded manufacture date)
Overall diameter	: (9,5 ± 0,5) mm

Electrical datas (at 20°C)

Conductor resistance		: ≤	13,5 Ω/km
Insulation resistance		: >	200 MΩxkm
Screen attenuation	up to 30MHz	:	45 dB (approxiamate value)
	up to 1 GHZ	:	30 dB (approxiamate value)
(Test methode acc. IEC 96-1 Amend. 2 (1993) A.5.6 „Line injection method“)			
Test voltage	(C/C)	:	3,0 kV_{eff}
	(C/S)	:	3,0 kV_{eff}
Operating voltage		:	600/1000V
Operating current (single cable) at ambient temperature			
	20°C	: ≤	19 A
	30°C	: ≤	18 A
	40°C	: ≤	17 A
	50°C	: ≤	14 A
	60°C	: ≤	11 A
	70°C	: ≤	8 A

Temperature range	(Transport & storage)	:	-70°C bis + 90°C
	(Installation & handling)	:	-40°C bis + 90°C
	(Operating)	:	-20°C bis + 80°C
Bending radius	(Operating)	: ≥	3 x cable-∅
	(several times)	: ≥	7,5 x cable-∅
	(several times optimum)	: ≥	10 x cable-∅
Bending strength	(r= 10 x cable-∅ at 20°C)	: ≥	5.000.000 cycles

reduced working life at higher operating temperatures.

Oil resistance	: acc. VDE 0282 part 10
Hydrolyse resistance	: acc. VDE 0282 part 10
Flame resistance	: acc. VDE 0472 part 804 test condition B
Approbation	: VDE-expert evidence (VDE-REG-Nr.6508)

The jacket surface has low adhesion, this prevents a stickness by contact.
All materials are halogenfree.
Applicable for use in flexible chain cable holder systems.
Not for use outdoor or in earth
When used as control cable the relevant installation and/or applicance standards have to be regarded.

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1.16 Specification of the Motor cable 4 x 2,5 mm²

Type: Motor supply cable 4 x 2,5mm²

Construction:

Conductor	: bare copper-wire 2,5 mm², high flexible
Insulation	: Polyesterelastomer 12Y
Colour	: black with white numbers 1 – 3 + yellowgreen
Cabeling	: 4 cores with fillers
Wrapping	: insulationtape
Shield	: braided tinned copper screen
Wrapping	: Seperatingtape
Jacket	: Polyurethan TMPU
Colour	: black –dull-
Printing (wt)	: ERNST + ENGRING VDE-REG-NR. 6508 4 x 2,5 90°C 600/1000V #### -HALOGENFREE- (####: coded manufacture date)
Overall diameter	: (11,4 ± 0,5) mm

Electrical datas (at 20°C)

Conductor resistance		: ≤	8,0 Ω/km
Insulation resistance		: >	200 MΩxkm
Screen attenuation	up to 30MHz	:	45 dB (approxiamate value)
	up to 1 GHZ	:	30 dB (approxiamate value)
(Test methode acc. IEC 96-1 Amend. 2 (1993) A.5.6 „Line injection method“)			
Test voltage	(C/C)	:	3,0 kV_{eff}
	(C/S)	:	3,0 kV_{eff}
Operating voltage		:	600/1000V
Operating current (single cable) at ambient temperature			
	20°C	: ≤	28 A
	30°C	: ≤	26 A
	40°C	: ≤	24 A
	50°C	: ≤	20 A
	60°C	: ≤	16 A
	70°C	: ≤	11A

Temperature range	(Transport & storage)	: -70°C bis + 90°C	
	(Installation & handling)	: -40°C bis + 90°C	
	(Operating)	: -20°C bis + 80°C	
Bending radius	(Operating)	: ≥	3 x cable-∅
	(several times)	: ≥	7,5 x cable-∅
	(several times optimum)	: ≥	10 x cable-∅
Bending strength	(r= 10 x cable-∅ at 20°C)	: ≥	5.000.000 cycles

reduced working life at higher operating temperatures.

Oil resistance	: acc. VDE 0282 part 10
Hydrolyse resistance	: acc. VDE 0282 part 10
Flame resistance	: acc. VDE 0472 part 804 test condition B
Approbation	: VDE-expert evidence (VDE-REG-Nr.6508)

The jacket surface has low adhesion, this prevents a stickness by contact.
All materials are halogenfree.
Applicable for use in flexible chain cable holder systems.
Not for use outdoor or in earth
When used as control cable the relevant installation and/or applicance standards have to be regarded.

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1.17 Specification of the Motor cable 4 x 4 mm²

Type: Motor supply cable 4 x 4 mm²

Construction:

Conductor	: bare copper-wire 4,0 mm², high flexible
Insulation	: Polyesterelastomer 12Y
Colour	: black with white numbers 1 – 3 + yellowgreen
Cabeling	: 4 cores with fillers
Wrapping	: insulationtape
Shield	: braided tinned copper screen
Wrapping	: Seperatingtape
Jacket	: Polyurethan TMPU
Colour	: black –dull-
Printing (wt)	: ERNST + ENGRING VDE-REG-NR. 6508 4 x 4,0 90°C 600/1000V #### -HALOGENFREE- (####: coded manufacture date)
Overall diameter	: (12,7 ± 0,6) mm

Electrical datas (at 20°C)

Conductor resistance		: ≤	5,0 Ω/km
Insulation resistance		: >	200 MΩxkm
Screen attenuation	up to 30MHz	:	45 dB (approxiamate value)
	up to 1 GHZ	:	30 dB (approxiamate value)
(Test methode acc. IEC 96-1 Amend. 2 (1993) A.5.6 „Line injection method“)			
Test voltage	(C/C)	:	3,0 kV_{eff}
	(C/S)	:	3,0 kV_{eff}
Operating voltage		:	600/1000V
Operating current (single cable) at ambient temperature			
	20°C	: ≤	36 A
	30°C	: ≤	34 A
	40°C	: ≤	32 A
	50°C	: ≤	26 A
	60°C	: ≤	21 A
	70°C	: ≤	15A

Temperature range	(Transport & storage)	: -70°C bis + 90°C	
	(Installation & handling)	: -40°C bis + 90°C	
	(Operating)	: -20°C bis + 80°C	
Bending radius	(Operating)	: ≥	3 x cable-∅
	(several times)	: ≥	7,5 x cable-∅
	(several times optimum)	: ≥	10 x cable-∅
Bending strength	(r= 10 x cable-∅ at 20°C)	: ≥	5.000.000 cycles

reduced working life at higher operating temperatures.

Oil resistance	: acc. VDE 0282 part 10
Hydrolyse resistance	: acc. VDE 0282 part 10
Flame resistance	: acc. VDE 0472 part 804 test condition B
Approbation	: VDE-expert evidence (VDE-REG-Nr.6508)

The jacket surface has low adhesion, this prevents a stickness by contact.
All materials are halogenfree.
Applicable for use in flexible chain cable holder systems.
Not for use outdoor or in earth
When used as control cable the relevant installation and/or applicance standards have to be regarded.

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1.18 Specification of the Motor cable 4 x 6 mm²

Type: Motor supply cable 4 x 6 mm²

Construction:

Conductor	: bare copper-wire 6,0 mm², high flexible
Insulation	: Polyesterelastomer 12Y
Colour	: black with white numbers 1 – 3 + yellowgreen
Cabeling	: 4 cores with fillers
Wrapping	: insulationtape
Shield	: braided tinned copper screen
Wrapping	: Seperatingtape
Jacket	: Polyurethan TMPU
Colour	: black –dull-
Printing (wt)	: ERNST + ENGRING VDE-REG-NR. 6508 4 x 2,5 90°C 600/1000V #### -HALOGENFREE- (####: coded manufacture date)
Overall diameter	: (14,8 ± 0,5) mm

Electrical datas (at 20°C)

Conductor resistance		: ≤	3,6 Ω/km
Insulation resistance		: >	200 MΩxkm
Screen attenuation	up to 30MHz	:	45 dB (approxiamate value)
	up to 1 GHZ	:	30 dB (approxiamate value)
(Test methode acc. IEC 96-1 Amend. 2 (1993) A.5.6 „Line injection method“)			
Test voltage	(C/C)	:	3,0 kV_{eff}
	(C/S)	:	3,0 kV_{eff}
Operating voltage		:	600/1000V
Operating current (single cable) at ambient temperature			
	20°C	: ≤	47 A
	30°C	: ≤	44 A
	40°C	: ≤	41 A
	50°C	: ≤	34 A
	60°C	: ≤	28 A
	70°C	: ≤	19A

Temperature range	(Transport & storage)	: -70°C bis + 90°C	
	(Installation & handling)	: -40°C bis + 90°C	
	(Operating)	: -20°C bis + 80°C	
Bending radius	(Operating)	: ≥	3 x cable-∅
	(several times)	: ≥	7,5 x cable-∅
	(several times optimum)	: ≥	10 x cable-∅
Bending strength	(r= 10 x cable-∅ at 20°C)	: ≥	5.000.000 cycles

reduced working life at higher operating temperatures.

Oil resistance	: acc. VDE 0282 part 10
Hydrolyse resistance	: acc. VDE 0282 part 10
Flame resistance	: acc. VDE 0472 part 804 test condition B
Approbation	: VDE-expert evidence (VDE-REG-Nr.6508)

The jacket surface has low adhesion, this prevents a stickness by contact.
All materials are halogenfree.
Applicable for use in flexible chain cable holder systems.
Not for use outdoor or in earth
When used as control cable the relevant installation and/or applicance standards have to be regarded.

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1.19 Specification of the Motor cable 4 x 10 mm²

Type: Motor supply cable 4 x 10 mm²

Construction:

Conductor	: bare copper-wire 10,0 mm², high flexible
Insulation	: Polyesterelastomer 12Y
Colour	: black with white numbers 1 – 3 + yellowgreen
Cabeling	: 4 cores with fillers
Wrapping	: insulationtape
Shield	: braided tinned copper screen
Wrapping	: Seperatingtape
Jacket	: Polyurethan TMPU
Colour	: black –dull-
Printing (wt)	: ERNST + ENGRING VDE-REG-NR. 6508 4 x 10,0 90°C 600/1000V #### -HALOGENFREE- (####: coded manufacture date)
Overall diameter	: (17,4 ± 0,6) mm

Electrical datas (at 20°C)

Conductor resistance		: ≤	2,1 Ω/km
Insulation resistance		: >	200 MΩxkm
Screen attenuation	up to 30MHz	:	45 dB (approxiamate value)
	up to 1 GHZ	:	30 dB (approxiamate value)
(Test methode acc. IEC 96-1 Amend. 2 (1993) A.5.6 „Line injection method“)			
Test voltage	(C/C)	:	3,0 kV_{eff}
	(C/S)	:	3,0 kV_{eff}
Operating voltage		:	600/1000V
Operating current (single cable) at ambient temperature			
	20°C	: ≤	65 A
	30°C	: ≤	61 A
	40°C	: ≤	57 A
	50°C	: ≤	48 A
	60°C	: ≤	39 A
	70°C	: ≤	27A

Temperature range	(Transport & storage)	: -70°C bis + 90°C	
	(Installation & handling)	: -40°C bis + 90°C	
	(Operating)	: -20°C bis + 80°C	
Bending radius	(Operating)	: ≥	3 x cable-∅
	(several times)	: ≥	7,5 x cable-∅
	(several times optimum)	: ≥	10 x cable-∅
Bending strength	(r= 10 x cable-∅ at 20°C)	: ≥	5.000.000 cycles

reduced working life at higher operating temperatures.

Oil resistance	: acc. VDE 0282 part 10
Hydrolyse resistance	: acc. VDE 0282 part 10
Flame resistance	: acc. VDE 0472 part 804 test condition B
Approbation	: VDE-expert evidence (VDE-REG-Nr.6508)

The jacket surface has low adhesion, this prevents a stickness by contact.
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