

# INDUSTRIAL GIGABIT ETHERNET CABLES CAT 6



**S GE 691** CAT 6 Gigabit Ethernet cable, for flexible applications

**S GE 696** CAT 6 Gigabit Ethernet cable, continuously flexible

**DR GE 698 P Highflex** reeling CAT 6 Gigabit Ethernet cable

CAT6 Gigabit Ethernet Cable 4 x 2 x 26 AWG CE



Marking for GE 691:

SAB BRÖCKSKES · D-VIERSEN · GE 691 CAT6 Gigabit Ethernet Cable 4 x 2 x 26 AWG CE

Industrial Ethernet is a young and quickly developing network technology. Ethernet with the worldwide accepted **TCP/IP** (Transmission Control Protocol/Internet Protocol) will be the future connection to the well established field bus or sensor / actuator level. Depending on the application, we are able to offer today CAT 5 and CAT 6 cable solutions for flexible and continuous flexible use, for chemical and thermal stress as well as special cable constructions for reeling purpose and robot operation.

item no.	type	dimensions AWG	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. $\Omega$ /km
▶ 06912604	GE 691	26 ( $\approx$ 7/34)/4pr	0.370	max. 9.0	71	145.0
▶ 06962604	S GE 696	26 ( $\approx$ 19/38)/4pr	0.331	max. 9.0	52	145.0
▶ 06982604	DR GE 698 P Highflex	26 ( $\approx$ 19/38)/4pr	0.496	approx. 9.9	128	145.0

Other dimensions and colors are possible on request.

<b>Construction:</b>	<b>GE 691</b> <i>for flexible applications</i>	<b>S GE 696</b> <i>continuously flexible</i>	<b>DR GE 698 P Highflex</b> <i>reeling cable</i>
<b>Dimension:</b>	4 x 2 x 26 AWG		
<b>Conductor:</b>	tinned copper strands, fine wires	tinned copper strands, extra fine wires	
<b>Insulation:</b>	PE		SABIX®
<b>Color code:</b>	white conductors with consecutive numbers 1 - 4 (+ blue, orange, green, brown)		
<b>Stranding:</b>	twisted to pairs / pairs wrapped with PETP foil and alu foil		
<b>Wrapping:</b>	non-woven tape		
<b>Screen:</b>	alu foil + tinned copper braiding		
<b>Wrapping:</b>	non-woven tape		
<b>Outer jacket:</b>	PUR		PUR / supporting braid / PUR
<b>Jacket color:</b>	green (similar RAL 6018)		black (similar RAL 6018)

<b>Technical data:</b>	<b>GE 691</b> <i>for flexible applications</i>	<b>S GE 696</b> <i>continuously flexible</i>	<b>DR GE 698 P Highflex</b> <i>reeling cable</i>
<b>Item number:</b>	0691-2604	0696-2604	0698-2604
<b>Peak operating voltage VDE:</b>	max. 350 V		
<b>Testing voltage:</b>	conductor/conductor 1500 V - conductor/screen 1200 V		
<b>Temperature range VDE</b> fixed laying: flexible application:	- 40°C / + 70°C - 30°C / + 70°C		- 40°C / + 90°C - 30°C / + 90°C
<b>Min. bending radius</b> fixed laying:  flexible application:  continuously flexible:	5 x O.D.   10 x O.D.	5 x O.D.  10 x O.D.  15 x O.D.	for laying and installation (fixed laying): 5 x O.D. for repeated winding action (flexible): 12 x O.D. guided on deflection pulleys (flexible): 15 x O.D.
<b>Characteristic impedance (1-250 MHz):</b>	100 $\Omega$ $\pm$ 10 $\Omega$ , accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2		
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1		
<b>Oil resistance:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page N/28		

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