S GE 696 HT high temperature, CAT 6 Gigabit Ethernet cable, for flexible applications

RT GE 694 CAT 6 Gigabit Ethernet cable, suitable for robots with UL recognition, CSA approval

RT GE 694 Hybrid CAT 6 Gigabit Ethernet cable, suitable for robots

Industrial Ethernet is a young and quickly developing network technology. Ethernet with the worldwide accepted **TCP/IP** (**T**ransmission **C**ontrol **P**rotocol/ **I**nternet **P**rotocol) 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, CAT 6 and CAT 7 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.

Marking for S GE 696 HT:
SAB BRÖCKSKES · D-VIERSEN · S GE 696 HT CAT6 Gigabit Ethernet Cable 4 x 2 x 26 AWG CE

item no.	type	no. of conductors	cross section AWG	nominal outer-ø max. inch	mm	cable weight ≈ lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km
▶ 36962604	S GE 696 HT	8	26 (≈ 19/38)	0.370	9.4	71	145.0
▶ 36942604	S GE 694	8	26 (≈ 19/38)	0.331	8.4	52	145.0
▶ 06949001	RT GE 694 Hybrid	8 + 4	26 (≈ 19/38) 1.0 mm² (≈ 30/32)	0.496	12.6	128	26 (≈ 19/38): 145.0 1.0 mm² (≈ 30/32): 19.5

Other dimensions and colors are possible on request.

Construction:

	S GE 696 HT *for flexible applications*	RT GE 694 *suitable for robots*	RT GE 694 Hybrid *suitable for robots*
Dimension:	4 x 2 x 26 AWG		4 x 2 x 26 AWG + 1.0 mm²
Conductor:	tinned copper strands, extra fine wires		bare copper strands, extra fine wires
Insulation:	PFA	PE	26 AWG: FEP / 1,0 mm²: TPE
Color code:	white conductors with consecutive numbers 1 - 4 (+ blue, orange, green, brown)		26 AWG: white-blue/blue, white-orange/orange, white-green/green, white-brown/brown, 1,0 mm²: black conductors with consecutive numbers acc. to EN 50334
Stranding:	conductors twisted to pairs		
Wrapping:	pairwise with alu foil		26 AWG pairwise with alu foil
Wrapping:	PTFE foil	non-woven tape	—
Screen:	alu foil + tinned copper braiding		pairs 26 AWG: tinned copper braiding
Inner jacket:	—		26 AWG (pairs white-orange/ orange and white-brown/brown); TPE, black (similar RAL 9005)
Wrapping:	—		non-woven tape
Outer jacket:	Special Besilen®	PUR	
Jacket color:	green (similar RAL 6018)		black (similar RAL 9005)

Technical data:

	S GE 696 HT *for flexible applications*	RT GE 694 *suitable for robots*	RT GE 694 Hybrid *suitable for robots*
Item number:	3696-2604	0694-2604	0694-9001
Peak operating voltage VDE:	max. 350 V		26 AWG: max. 350 V
Nominal voltage:	—		1,0 mm²: 300/500 V
Voltage: UL/CSA:	—	300 V	—
Testing voltage:	conductor/conductor 1500 V conductor/screen 1200 V		cond./cond. 26 AWG: 1500 V 1,0 mm²: 2000 V cond./screen 26 AWG: 1200 V
Temperature range VDE fixed laying: flexible application: short-time use:	- 40°C / + 180°C - 25°C / + 180°C + 250°C	**UL:** up to + 80°C - 40°C / + 70°C - 30°C / + 70°C	- 50°C / + 90°C - 40°C / + 90°C
Min. bending radius fixed laying: flexible application: continuously flexible:	7,5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D.	
UL Style:	—	21198	—
Torsion:	—	up to ± 360°/m	
Characteristic impedance (1-250 MHz):	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2		26 AWG: 100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2
Zero halogen:	—	acc. to DIN VDE 0472 part 815 + IEC 60754-1	—
Oil resistance:	—	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
Flexibility:	very good		
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/28		

E-mail: info@sabcable.com Web site: www.sabcable.com