

# INDUSTRIAL GIGABIT ETHERNET CABLES CAT 6 AND CAT 6A



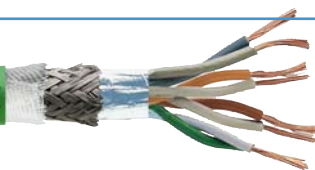
**S 677 CAT 6** CAT 6 Gigabit Ethernet cable  
suitable for cable tracks

**RT 687 CAT 6** CAT 6 Gigabit Ethernet cable  
suitable for robots

**S 677 CAT 6A** CAT 6A Gigabit Ethernet cable  
suitable for cable tracks

**RT 687 CAT 6A** CAT 6A Gigabit Ethernet cable  
suitable for robots

G 1677-4630 AWM Style 20549 80°C 300V



Marking for S 677 CAT 6:

SAB BRÜCKSKES · D-VIERSEN · S 677 Cat.6 4x2x26AWG 1677-4630 AWM Style 20549 80°C 300V

Construction:	S 677 CAT 6	S 677 CAT 6A	RT 687 CAT 6	RT 687 CAT 6A
	<i>continuously flexible</i>	<i>continuously flexible</i>	<i>suitable for robots</i>	<i>suitable for robots</i>
Dimension:	4 x 2 x 26 AWG			
Conductor:	bare copper strands, fine wires			
Insulation:	special polymer			
Colour code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown			
Stranding:	cores twisted to pairs, pairs together			
Wrapping:	non-woven tape			
Screen:	alu foil			
Screen:	tinned copper braiding			
Wrapping:	non-woven tape			
Sheath material:	PUR			
Sheath colour:	green (similar RAL 6018)			

Technical data:	S 677 CAT 6	S 677 CAT 6A	RT 687 CAT 6	RT 687 CAT 6A
	<i>continuously flexible</i>	<i>continuously flexible</i>	<i>suitable for robots</i>	<i>suitable for robots</i>
Item number:	1677-4630	1677-4631	1687-4630	1687-4631
Peak operating voltage VDE:	max. 350 V			
Voltage UL:	300 V			
Testing voltage:	core/core 1500 V - core/screen 1200 V			
Temperature range VDE fixed laying: flexible application:	<b>UL:</b> up to + 80°C - 40°C / + 70 °C - 30°C / + 70 °C			
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x d 10 x d 15 x d		5 x d 10 x d	
Torsion:	---		up to ± 360°/m	
Characteristic impedance (100 MHz):	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2 / CAT 6	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2 / CAT 6	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1			
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL Horizontal Flame Test			
Oil resistance:	PUR, TMPU acc. to EN 50363-10-2			
Flexibility:	very good			
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/14			

item no.	type	no. of cores	cross section AWG	max. core-ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈kg/km
16774630	S 677 CAT 6	8	26	1,05	7,1	32,0	57
16774631	S 677 CAT 6A	8	26	1,05	7,1	32,0	57
16874630	RT 687 CAT 6	8	26	1,05	7,1	32,0	57
16874631	RT 687 CAT 6A	8	26	1,05	7,1	32,0	57

Other dimensions and colours are possible on request.