

The background of the entire page is a close-up photograph of industrial electrical connectors. Several black cables with metal connectors are plugged into a metal panel. Some of the connectors have red indicator lights that are illuminated. The image is slightly blurred, focusing on the foreground connectors. The ACT Industrial logo is overlaid on the top left of this image.

ACT
Industrial

**ACT Industrial
Cables and connectors**

ACT 40 years of experience

ACT is the leading name in connectivity solutions for the demanding markets in the field of IT, AV and Industry. As a European based company, with headquarters in Netherlands, sales offices in Belgium, Spain and Germany we understand the unique needs and requirements of our European customers. With over 40 years of experience, we have continuously adapted to changing market needs and demands. ACT is part of the public listed TKH Group.

Product advice and support

Our core values are knowledge, advice, customer service and availability. We are committed to assist our customers in making the right choices and maximizing the use of their solutions in combination with our products. We guarantee prompt assistance. Furthermore ACT provides customized support to integrate ACT products in your systems by sharing all needed information. We strive for effortless collaboration and aim to make it as easy as possible for you. We have implemented this with numerous satisfied customers. ACT has grown by adhering to a no-nonsense approach, where quality, availability and your satisfaction are paramount.

With ACT you make the right choice for reliable connectivity solutions with a personal touch.

ACT Industrial

Part of ACT Industrial are the ACT Industrial sensor actuator cables, which are available in different ranges. Besides the standard stock products we offer custom made products. The custom made products mainly involve changes and modifications with regards to the length, connector, colour, cable sheath and even custom made molding.

ACT Industrial also offers ACT Industrial patch cables and ACT Fiber Optic patch cables. The Industrial patch cables (CAT7 PUR flex patch cables) have a polyurethane jacket and are suitable for the most challenging indoor/outdoor environments. The PUR flex cable is oil and UV resistant and designed for high demanding industrial use. Available in different lengths. The Fiber Optic patch cables are available in different ranges, ruggedized and armoured, and available in different lengths and with different connectors.

In this brochure we will further explore the complete range of our ACT Industrial cables.



ACT Industrial Sensor cables overview



- The ACT Industrial sensor actuator cables are provided with a high-quality TPE (Thermo Plastic Elastomer) sheath and are therefore highly resistant to mechanical loads such as movements in a chain.
- The connectors are overmoulded TPE and degree of protection is IP67.
- The ACT Industrial sensor cables exist in different ranges which are all more flexible than regular standard AWG24/7 strands patchcable.
- Stranded conductors are buildup of uninsulated thin strands of wire twisted together. How greater the number of strands in a stranded conductor, the greater the flexibility of the wire.

Superflex cable

Each individual core consists of 28 strands of copper that together form a diameter of AWG26

Superflex Xtreme cable

Each individual core consists of 19 strands of copper that together form a diameter of AWG22

Ultraflex cable

Each individual core consists of 41 strands of copper that together form a diameter of AWG23

Ultraflex Xtreme cable

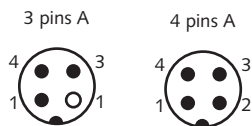
Each individual core consists of 52 strands of copper that together form a diameter of AWG23

ACT Industrial Sensor cables - M8A-Coded

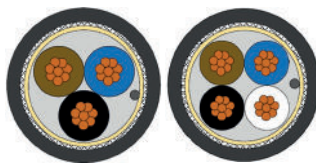
M8 A-Coded Ultraflex Xtreme cables AWG23

- Flexible TPE sheath
- Full copper Ultraflex Xtreme AWG23 shielded cable
- Each individual core consists of 52 strands of copper that together form a diameter of AWG23

Connectors



Cable



Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
3	M8A	•			•		M8A		•		•		1.5m, 3.0m, 5.0m
3	M8A	•			•		-						1.5m, 3.0m, 5.0m
3	M8A		•		•		-						1.5m, 3.0m, 5.0m
4	M8A	•			•		M8A		•		•		1.5m, 3.0m, 5.0m
4	M8A	•			•		M8A	•			•		1.5m, 3.0m, 5.0m
4	M8A	•			•		-						1.5m, 3.0m, 5.0m
4	M8A		•		•		-						1.5m, 3.0m, 5.0m


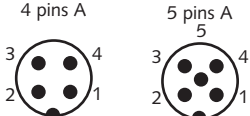
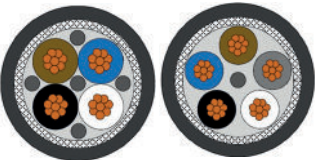
ACT Industrial Sensor cables - M12 A-Coded



M12 A-Coded Superflex Xtreme cables AWG22

- Flexible TPE sheath
- Full copper Superflex Xtreme AWG22 shielded cable
- Each individual core consists of 19 strands of copper that together form a diameter of AWG22


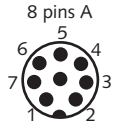



Connectors				Cable									
													
Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
4	M12A	•			•		M12A		•		•		1.5m, 3.0m, 5.0m
4	M12A	•			•		-						1.5m, 3.0m, 5.0m
4	M12A		•		•		-						1.5m, 3.0m, 5.0m
5	M12A	•			•		M12A		•		•		1.5m, 3.0m, 5.0m
5	M12A	•					-						1.5m, 3.0m, 5.0m
5	M12A		•		•		-						1.5m, 3.0m, 5.0m

M12 A-Coded Ultraflex cables AWG24

- Flexible TPE sheath
- Full copper Ultraflex SF/UTP AWG24 shielded cable
- Each individual core consists of 41 strands of copper that together form a diameter of AWG24



Connectors				Cable									
													
Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
8	M12A	•			•		M12A		•				1.5m, 3.0m, 5.0m
8	M12A	•			•		M12A	•			•		1.5m up to 60.0m*
8	M12A	•			•		-						1.5m, 3.0m, 5.0m
8	M12A		•		•		-						1.5m, 3.0m, 5.0m
8	M12A	•				•	M12A		•		•		0.20m up to 20.0m*

* For complete range of lengths see our website

M12 A-Coded – RJ45 Ultraflex SF/UTP cables AWG24

- Flexible TPE sheath
- Full copper Ultraflex SF/UTP AWG24 shielded cable
- Each individual core consists of 41 strands of copper that together form a diameter of AWG24



Connectors							Cable						
<div><div>8 pins A</div><div></div><div>RJ45</div><div></div></div>							<div></div> <div></div>						
Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
8	M12A	•			•		RJ45	•			•		1.0m up to 60.0m*
8	M12A	•				•	RJ45	•					10.0m, 20.0m
8	M12A		•	•			RJ45	•					0.30m up to 60.0m*

* For complete range of lengths see our website




ACT Industrial Sensor cables - M12 D-Coded



M12 D-Coded Superflex cables AWG22

- Flexible TPE sheath
- Full copper Superflex AWG22 shielded cable
- Each individual core consists of 19 strands of copper that together form a diameter of AWG22

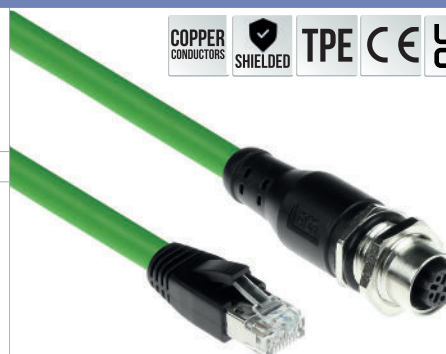



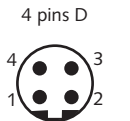
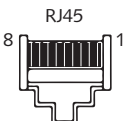

Connectors				Cable											
<p>4 pins D</p> 															
Pins	Side A						Side B						Length		
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled			
	4	M12D	•			•		-							1.5m, 3.0m, 5.0m
	4	M12D	•			•		M12D	•			•			0.5m up to 60.0m
4	M12D	•			•		M12D		•		•		1.5m, 3.0m, 5.0m		
* For complete range of lengths see our website															

* For complete range of lengths see our website

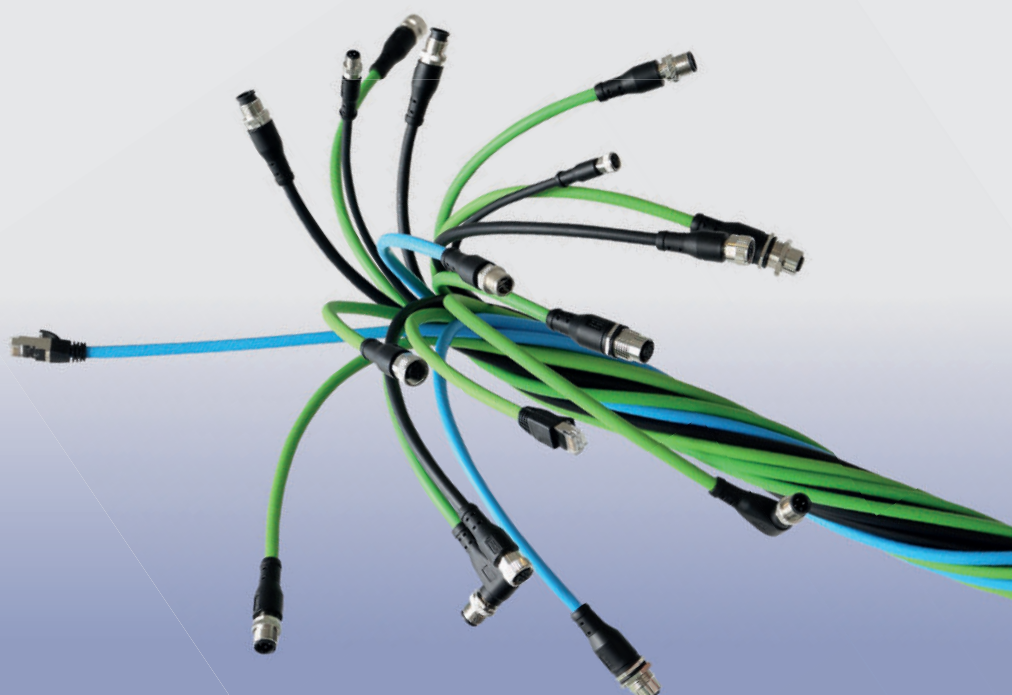
M12 D-Coded - RJ45 Superflex cables AWG22

- Flexible TPE sheath
- Full copper Superflex AWG22 shielded cable
- Each individual core consists of 19 strands of copper that together form a diameter of AWG22



Connectors				Cable										
 														
Pins	Side A						Side B						Length	
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled		
	4	M12D		•	•		RJ45	•			•			0.30m up to 5.0m *
	4	M12D	•				RJ45	•			•			1.5m, 3.0m, 5.0m, 10.0m
	4	M12D	•			•		RJ45	•		•			0.5m up to 60.0m *
* For complete range of lengths see our website														


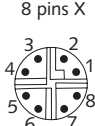

* For complete range of lengths see our website



M12 X-Coded Superflex CAT6A SF/UTP cables AWG26

- Flexible TPE sheath
- Full copper Superflex AWG26 shielded cable
- Each individual core consists of 28 strands of copper that together form a diameter of AWG26



Connectors				Cable									
8 pins X 													
Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
8	M12X	•			•		M12X	•			•		1.5m 3.0m 5.0m

M12 X-Coded - RJ45 Superflex CAT6A SF/UTP cables AWG26

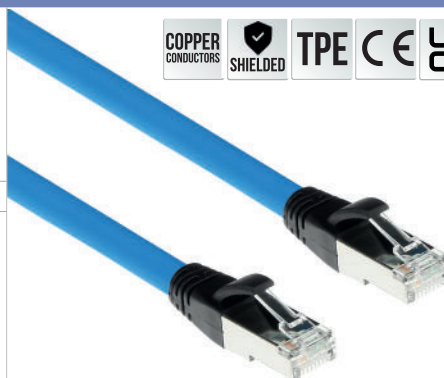
- Flexible TPE sheath
- Full copper Superflex AWG26 shielded cable
- Each individual core consists of 28 strands of copper that together form a diameter of AWG26



Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
8	M12X	•					RJ45	•			•		1.5m, 3.0m, 5.0m, 10m
8	M12X		•	•			RJ45	•			•		1.5m, 3.0m, 5.0m

RJ45 – RJ45 Superflex CAT6A SF/UTP cables AWG26

- Flexible TPE sheath
- Full copper Superflex AWG26 shielded cable
- Each individual core consists of 28 strands of copper that together form a diameter of AWG26



Connectors							Cable						
Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
8	RJ45	•			•		RJ45	•			•		0.15m up to 60.0m

* For complete range of lengths see our website

ACT Industrial Patch cables - RJ45 - RJ45



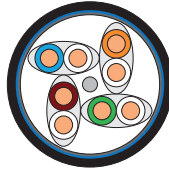
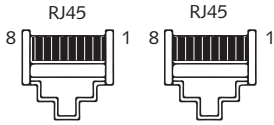
CAT7 patch cables

- CAT7 S/FTP PUR flex patch cable snagless with RJ45 connectors (CAT6A compliant)
- CAT7 cable with polyurethane jacket suitable for outdoor and industrial use
- Cable remains flexible in many weather conditions; oil and UV resistant
- Suitable for PoE applications
- Full copper AWG24 wires, CAT6A 50µ gold RJ-45 contacts



Connectors

Cable



Pins	Side A						Side B						Length
	Connector	Male	Female	Chassis	Straight	Angled	Connector	Male	Female	Chassis	Straight	Angled	
8	RJ45	•			•		RJ45	•			•		0.5m up to 20m *

* For complete range of lengths see our website



Sensor connectors M12 A Coding - Straight

Pins	Connector	Male	Female	Screw
3	M12A	•	•	•
4	M12A	•	•	•
5	M12A	•	•	•
8	M12A	•	•	•



Sensor connectors M12 A Coding - Angled

Pins	Connector	Male	Female	Screw
3	M12A	•	•	•
4	M12A	•	•	•
5	M12A	•	•	•
8	M12A	•	•	•



Sensor connectors M12 A Coding - Chassis Front

Pins	Connector	Male	Female	Soldercup	Wired
3	M12A	•	•	•	•
4	M12A	•	•	•	•
5	M12A	•	•	•	•
8	M12A	•	•	•	•



Sensor connectors M12 A Coding - Chassis Back

Pins	Connector	Male	Female	Soldercup	Wired
3	M12A	•	•	•	•
4	M12A	•	•	•	•
5	M12A	•	•	•	•
8	M12A	•	•	•	•



Sensor connectors M12 D Coding - Straight

Pins	Connector	Male	Female	Screw
4	M12D	•	•	•



Ruggedized patch cables – better mechanical protection

Ruggedized patch cables can be used for longer distances, 10 meters and more. Standard patch cables are used for shorter distances within a 19" cabinet. Ruggedized patch cables have an extra jacket for better mechanical protection and are also called Flatoval fiber-optic patch cables due to the oval shape of the extra jacket.

OM3 Duplex ruggedized patch cables LSZH

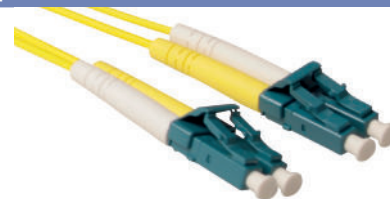
- 50/125µm OM3 Duplex ruggedized patch cables LSZH



Colour	Connectors	10m	20m	30m	40m	50m
Aqua	LC-LC	RL5101	RL5102	RL5103	RL5104	RL5105
Aqua	LC-SC	RL5201	RL5202	RL5203	RL5204	RL5205
Aqua	SC-SC	RL5301	RL5302	RL5303	RL5304	RL5305

OS2 Duplex ruggedized patch cables LSZH

- 9/125µm OS2 duplex ruggedized patch cables LSZH



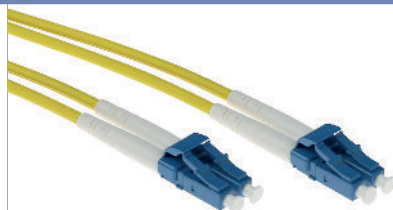
Colour	Connectors	10m	20m	30m	40m	50m
Yellow	LC-LC	RL5401	RL5402	RL5403	RL5404	RL5405
Yellow	LC-SC	RL5601	RL5602	RL5603	RL5604	RL5605
Yellow	SC-SC	RL5701	RL5702	RL5703	RL5704	RL5705

Armoured patch cables – the best mechanical protection

If your patch cables are exposed to extreme conditions, choose armoured patch cables. These are patch cables with a metal protective layer, making them even more robust and protected. These types of patch cables are often used in industrial and offshore applications.

OS2 Duplex Armoured patch cables

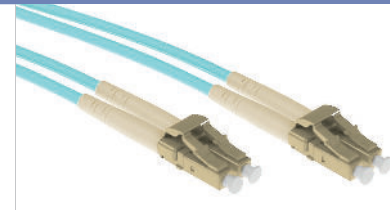
- 9/125µm OS2 duplex armoured fiber patch cables



Colour	Connectors	0.5m	1m	1.5m	2m	3m
Yellow	LC-LC	RL3300	RL3301	RL3351	RL3302	RL3303
5m	7m	10m	15m	20m	25m	30m
RL3305	RL3307	RL3310	RL3315	RL3320	RL3325	RL3330
40m	50m					
RL3340	RL3350					

OM3 Duplex Armoured patch cables

- 9/125µm OS2 duplex armoured fiber patch cables



Colour	Connectors	0.5m	1m	1.5m	2m	3m
Aqua	LC-LC	RL3400	RL3401	RL3451	RL3402	RL3403
5m	7m	10m	15m	20m	25m	30m
RL3405	RL3407	RL3410	RL3415	RL3420	RL3425	RL3430
40m	50m					
RL3440	RL3450					



For our complete range of Fiber Optic cable, check out our website: www.act-connectivity.com

SPEED Elektronik is your specialist for customer-specific mechanical and electromechanical projects.

We develop and produce these solutions for industrial customers.

Here we exploit the synergy:

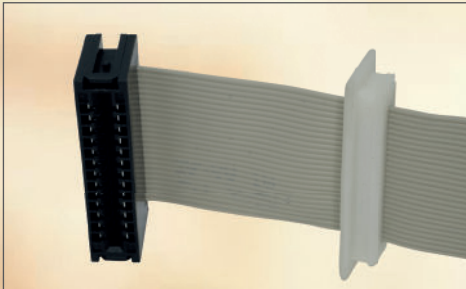
- Engineering and project management in Germany
- Procurement by our own branch in Asia
- Flexible production in Ireland and Germany

These customer-specific projects are complemented by an extensive standard portfolio of ACT products available from stock in the areas of copper and fiber optic cables, network technology and audio/video.

We guarantee you professional project management, taking your specific customer requirements into account.

Flat hierarchies with high decision-making authority enable fast, professional and yet flexible solutions.

Our project engineers will advise you on the specific requirements of your project and have an extensive solution portfolio, especially through the possibility of combining Asian components with flexible European production.



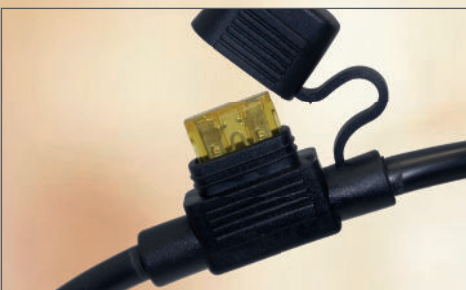
We assemble cable assemblies exactly for your needs!

Whether ribbon cables, control cables, sensor cables or energy and telecommunications cables, we are your perfect partner for your customized cable assembly! From a simple ultrasonically welded strand to a complex wiring harness with heavy connectors and individual overmolding: everything is possible!



Overmolding is used in a variety of ways in cable assemblies. Plug connectors and cable outlets are usually overmolded, but Y or multiple outlets can also be created on the cable.

Anti-kink grommets and strain reliefs are also typical applications. Our tools are very costeffective and have a short delivery time, which means we can also offer solutions for smaller quantities economically and quickly.



Specials for the Sensor actuator cables:

- Special lengths

With the possibility to have same design toolings for connectors in Ireland we are able to modify existing ACT stock cables according to customer request.

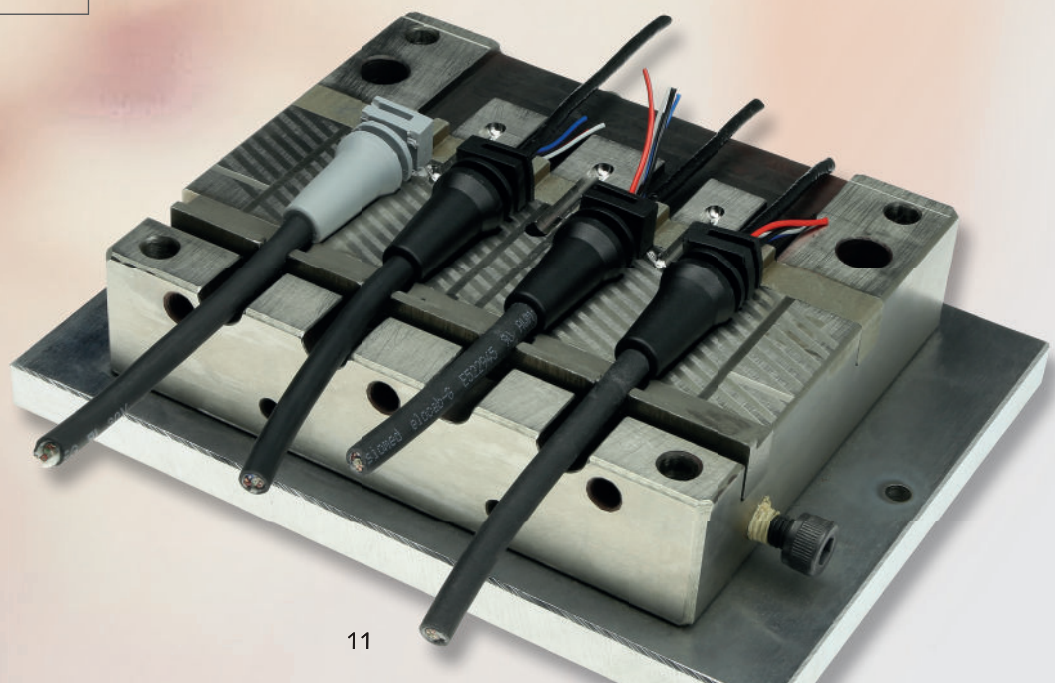
- Connector assembly according to customer request

We are able to assemble any connector to existing ACT cables. It does not matter which connector and/or manufacturer the customer wants.

- Overmolding:

- Y-molds
- Strain relief molds
- Logo molds
- Different colours possible
- Different molding materials possible
- Different hardness of molding material possible

- Aramid protected Sensor actuator cables possible to produce.



The Netherlands

Intronics BV
Koolhovenstraat 1E
3772 MT Barneveld
Tel.: +31 (0)342-407080
sales@intronics.nl
www.intronics.nl

Belgium

Intronics Belgium
Herenthoutseweg 236
2200 Herentals
Tel.: +32 14/220 334
sales@intronics.be
www.intronics.be

Germany

Speed Elektronik Vertrieb GmbH
August-Bendler-Str. 3B
D-58332 Schwelm
Tel.: +49 (0)2336-4745 0
info@speed-elektronik.de

Spain

Intronics España
C/Eslovenia, 15 Nave 72
Pol. Ind. Guadalhorce,
29004 Málaga
Tel.: +34 952 24 55 57
info@intronics.es
www.intronics.es