

Load Cell and Data Cables

High EMC Immunity at Industrial Weighing



High Quality Cables For;

- Analogue load cells,
- Digital load cells,
- Weighbridges,
- Mobile scales,
- Hazardous environments,
- Against mouse gnawing,
- Halogen free and flame retardant requirements



Super Cables

- Up to 3 shielding,
- Up to 90% outer screen coverage,
- Outer metal sheet,
- Extra fine stranded copper wire,
- High insulation resistance,
- From general to Ex-proof needs.



Hazardous Areas

Baykon Ex-proof load cell and data cables are used in Zone 1/21 and Zone 2/22 areas;

- Load cell cable: CL6.034-E
- Data Cable: CD4.034-E

Baykon cables are used to very low level analogue load cell signals, digital load cell signals, data transport and in automation systems even harsh in indoor and outdoor environments.

Multilayer and high covered screens of Baykon cables provide reliable connection and accurate weighing against electromagnetic disturbances in harsh conditions. Digital load cell cables are produced to have the best performance from digital weighing system in long term.

Ex-proof load cell and data cables are used at scales with analogue or digital load cells, data lines and at digital In /Out signalization like alarm signal.

Technical Specifications of Baykon Cables

Cable Code	CL6.014	CL6.034	CL6.034-E	CL6.020-S	CL4.030-SP	CD4.022	CD4.034-E
Cut view							
Type	Analogue Load cell cable		Load cell cable	Analogue load cell cable with metal sheet	Digital load cell cable with metal sheet and transparent PVC on it.Data cable	Data cable	Data cable Digital load cell cable
Usage environments (suggested)	General		Ex-proof Zone 1/21- Zone 2/22 Halogen free Flame redundant	Weighbridge, Heavy industrial environment		General	Ex-proof Zone 1/21 - Zone 2/22 Halogen free Flame redundant
Cores and cross section	6 x 0.14 mm ²	6 x 0.34 mm ²		6 x 0.20 mm ²	4 x 0.30 mm ²	4 x 0.22 mm ²	4 x 0.34 mm ²
Outer diameter	5.6 mm	7.5 mm	7.6 mm	6.65 mm	8.8 mm	4.3 mm	5.3 mm
Outer sheet color	Black	Yellow	Blue	Metal	Transparent on metal	Gray	Blue
Outer sheat	PVC		Halogen free Flame retardant (HFFR)	Tinned metal shield	PVC	Halogen free Flame retardent (HFFR)	
Core colors	White, Black, Red, Blue, Green, Gray			White,Black,Red, Blue,Green,Yellow	White, Red, Black, Blue	White, Brown, Green, Yellow	White, Red, Black, Blue
Conductors	Stranded tinned copper wires						
Inner screen	AL-PET tape overall screen			Tinned copper wire coverage 70%	AL-PET tape overall screen		
Middle screen	No				Tinned copper wire	No	
Outer screen	Tinned copper wire coverage 80%			Tinned copper wire coverage 90%	Aluminium Magnesium alloy wire coverage 90%	Tinned copper wire coverage 60%	
Operating voltage Max	250 V			220 V	300 V	250 V	
Conductor resistance @20°C	140 Ω/km	53 Ω/km		105 Ω/km	71.2 Ω/km	96 Ω/km	60 Ω/km
Insulation resistance Min.	200 MΩ/km			100 MΩ/km		200 MΩ/km	
Capacitance @800Hz	<100 nF/km (core-core) <190 nF/km (core-screen)			<80 nF/km	<40 nF/km	<100 nF/km (core-core) <190 nF/km (core-screen)	
Test voltage	800 V	1000 V					
Bending radius minimum	45 mm	65 mm	55 mm	60 mm	70 mm	60 mm	75 mm
Installation temperature	-15°C + 70°C			-5°C + 70°C	-15°C + 70°C		
Operating temperature	-30°C + 70°C			-25°C + 70°C		-30°C + 70°C	
CE, RoHS compliant	Yes						
Weight kg / km	55	95	95	85	100	33	42

(Specifications are subject to change without notice. 02 - 03 / 2024)