

Industrial Ethernet

For Petrol Forecourt Applications (Solid) Black

Application

The Galvanised steel wire braid and overall polyurethane sheath make for a rugged cable with excellent resistance to oil and petrol. Tested to BS EN13617-1:2004. Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units Section 5.3.2.4 cables used in hazardous areas, independently tested by Sira.

As directed by the IP/APEA Hazardous Area "Blue Book".

Cable Design

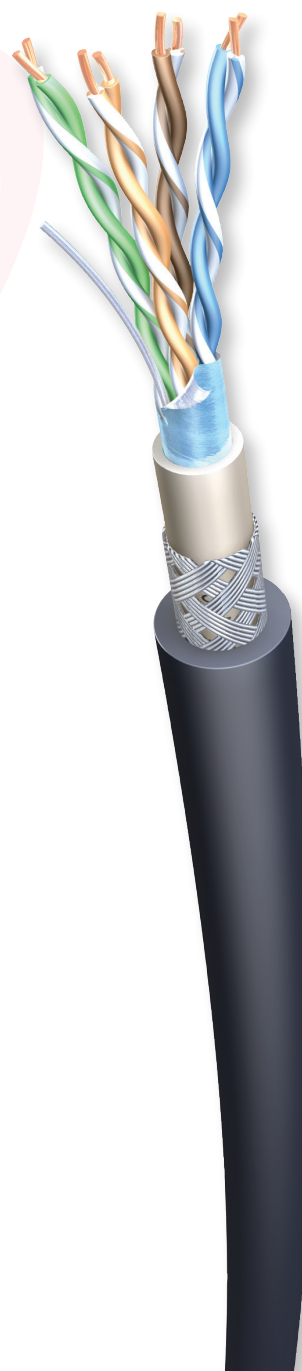
Conductor	Solid Bare Cu-wire AWG 24/1
Insulation	SFS-PE
Pair	2 cores to the pair
Cable lay up	4 pairs stranded together
Screen	Plastic laminated Aluminium foil + TC drain wire
Inner Jacket	LSZH FireFighter® : Ø 6,10 ± 0,20 mm
Armour	DataGuard® Galvanised Steel Wire Braid (GSWB)
Sheath	Polyurethane (PUR) : Ø (min./max.) 9,60/10,0 mm ± 10%

Colour Code Chart

Pair	Colour
1	Blue + White/Blue
2	Orange + White/Orange
3	Green + White/Green
4	Brown + White/Brown

Standards

Applicable Standards	ISO-IEC 11801 2nd edition, EN 50173-1, TIA/EIA 568, EN 50288-2-1, IEC 61156-5.
Flamability Rating	IEC 60332-1, IEC 60754-2, EN 61034, IEC 61034



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Thermal Characteristics

Temperature range	during installation	-15 °C to +70 °C
	stationary	-40 °C to +70 °C

Electrical Data

Conductor loop resistance max.		19	Ω/100m
Insulation resistance min.		5	GΩ x km
Characteristic impedance	1-100 MHz	100±15	Ω
Transfer impedance max.	10 MHz	30	mΩ/m (nom.)
Mutual capacitance nom.		50	nF/km
Relative propagation velocity ca.		0,74	c
Screening attenuation min.	≤ 100 MHz	40	dB
Test voltage		700	V-AC

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	ELFEXT (dB/100m)	RL (dB)
	Nom.	Nom.	Nom.	Nom.	Nom.
1	1,9	80	78,1	68	24
4	3,7	75	71,3	56	30
10	5,6	70	64,4	46	34
16	7,2	68	60,8	43	35
20	7,9	65	57,1	41	34
31,25	10,3	60	49,7	36	33
62,5	14,4	56	41,6	32	31
100	18,2	50	31,8	26	28
155	19,9	45	25,1	24	26
200	24,2	42	17,8	22	24

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Test Voltage

Table 21 Test Voltage of Core

Type	Test Voltage
321, 331	7500V 5 mins
Additional Test	12000V 1 min

Tested to BS EN 13617-1:2004. Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units section 5.3.2.4 cables used in hazardous areas, independently tested by Sira. As directed by the IP/APEA Hazardous Area "Blue Book".

Additional voltage test to BS6708 table 21, types 321 and 331

Specification

Part Number	Type
3014P24S1001	Industrial Ethernet Petrol Forecourt Cable (Solid) Black



CSA Group – Providing Sira Certification and CSA Approvals

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