UL 13 CL3R ACS-4C Access Control Composite

ACS-4C Access Control Composite

4-Element Access Control Composite Cable



UL 13 CL3R/CL3P / UL 444 CMR · 300 V · −20…+75 °C industrial ACS-4C Access Control

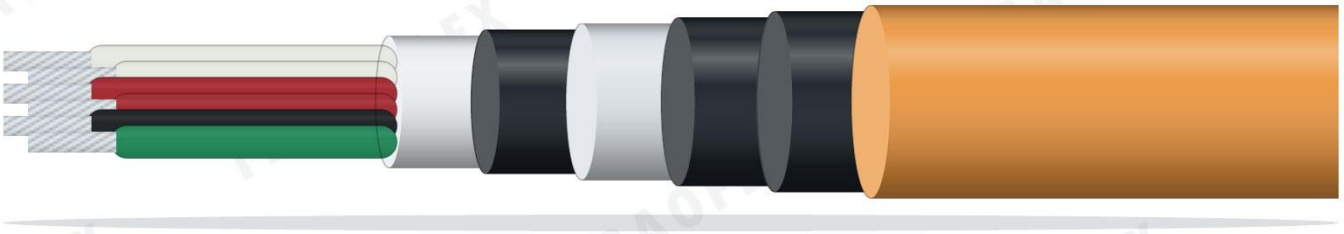
UL 13 CL3R/CL3P / UL 444 CMR | 300 V | −20…+75 °C

Application

4-Element Access Control Composite Cable engineered to UL 13 CL3R/CL3P / UL 444 CMR for 300 V service across −20…+75 °C, featuring stranded bare & tinned copper conductor and pvc lock-power jacket with minimum bending radius 8 × OD.

Typical uses: Commercial & Residential Building Distribution, Data Centers & Public Infrastructure, Fire-Safe Evacuation & Riser Shafts, Industrial Plant Balance-of-Plant Wiring

Construction





Cross-section, not to scale

1	Stranded bare & tinned copper conductor	UL 13 CL3R/CL3P / UL 444 CMR
2	Al/PET subcable shield	UL 13 CL3R/CL3P / UL 444 CMR
3	PVC card-reader jacket	UL 13 CL3R/CL3P / UL 444 CMR
4	PVC core insulation	UL 13 CL3R/CL3P / UL 444 CMR
5	PVC door-contact jacket	UL 13 CL3R/CL3P / UL 444 CMR
6	PVC request-exit jacket	UL 13 CL3R/CL3P / UL 444 CMR
7	PVC lock-power jacket	UL 13 CL3R/CL3P / UL 444 CMR

Technical data

Typical values

Rated voltage / duty	300 V (UL 13 CL3R/CL3P / UL 444 CMR)	Conductor construction	Stranded bare & tinned copper conductor — High-conductivity bare & tinned copper conductor per UL 13 CL3R/CL3P / UL 444 CMR
Primary insulation / dielectric	Al/PET subcable shield — Al/PET subcable shield metallic electromagnetic screen (individual core / group layer)	Continuous operating temperature	−20…+75 °C per UL 13 CL3R/CL3P / UL 444 CMR
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	Minimum installation temperature	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	PVC lock-power jacket — Extruded PVC lock-power jacket protective layer (individual core / group layer)	Minimum bending radius	8 × OD (installed / static routing)
Layer count & geometry	7 concentric/structural layers verified by cross-section inspection	Environmental & chemical durability	Engineered for industrial service in accordance with UL 13 CL3R/CL3P / UL 444 CMR
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	Standards	UL 13 CL3R/CL3P / UL 444 CMR

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R fixed mm
ACS-4C Access Control Composite Standard Production Schedule (300 V · −20…+75 °C) 12 sizes				
☐ ACS-4C Access Control Composite 3G1.5	3 × 1.5 mm²	8.4	105	68
☐ ACS-4C Access Control Composite 4G1.5	4 × 1.5 mm²	9.2	128	74
☐ ACS-4C Access Control Composite 5G1.5	5 × 1.5 mm²	10.1	156	81
☐ ACS-4C Access Control Composite 3G2.5	3 × 2.5 mm²	9.8	148	78
☐ ACS-4C Access Control Composite 4G2.5	4 × 2.5 mm²	10.8	186	86
☐ ACS-4C Access Control Composite 5G2.5	5 × 2.5 mm²	11.9	228	95
☐ ACS-4C Access Control Composite 4G4	4 × 4.0 mm²	12.6	268	101
☐ ACS-4C Access Control Composite 4G6	4 × 6.0 mm²	14.2	365	114
☐ ACS-4C Access Control Composite 4G10	4 × 10 mm²	17.5	580	140
☐ ACS-4C Access Control Composite 4G16	4 × 16 mm²	20.4	845	163
☐ ACS-4C Access Control Composite 4G25	4 × 25 mm²	24.8	1,290	198
☐ ACS-4C Access Control Composite 4G35	4 × 35 mm²	27.9	1,710	223

– Single-core and multi-core sizes from 0.5 mm² up to 630 mm² (or AWG/kcmil) available per UL 13 CL3R/CL3P / UL 444 CMR.

Conductor resistance & current-carrying capacity

8 sizes

Cross-section	Max. DC R_{20} Ω/km	Current in air A (30 °C) ≈	Voltage drop mV/A·m
1.5 mm² (AWG 16)	13.30	18	29.0
2.5 mm² (AWG 14)	7.98	26	17.5
4.0 mm² (AWG 12)	4.95	34	10.9
6.0 mm² (AWG 10)	3.30	44	7.3
10 mm² (AWG 8)	1.91	61	4.2
16 mm² (AWG 6)	1.21	82	2.7
25 mm² (AWG 4)	0.78	108	1.7
35 mm² (AWG 2)	0.55	135	1.2

– Current ratings are for 3 loaded conductors at 30 °C ambient in free air/tray per IEC 60364-5-52 / NEC.

Standards and approvals

- UL 13 CL3R Compliant
- EN 10204 3.1 Routine Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/acs-4c-access-control-4-element-composite-cable

Typical values for this cable type, based on UL 13 CL3R/CL3P / UL 444 CMR. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.