

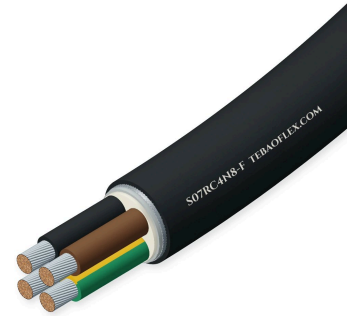


AD8 Permanent-Submersion Rubber & Pump Cables

S07RC4N8-F

Screened Heavy-Duty Submersible Polychloroprene Rubber

EN 50525-2-21 AD8 / HD 361 · 450/750 V · EPR ('R') · Cu braid ('C4') · AD8 PCP sheath



EN 50525-2-21 AD8

450/750 V

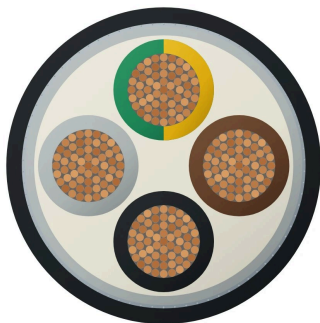
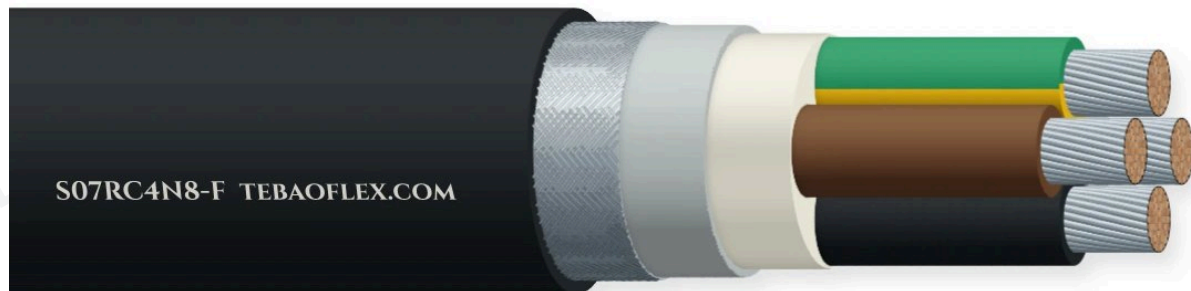
Screened Submersible 'C4N8'

Application

S07RC4N8-F is the EMC-screened counterpart to H07RN8-F, coded to CENELEC HD 361 for 450/750 V AD8 permanent water submersion. It combines low-water-uptake EPR core insulation ('R'), an $\geq 85\%$ tinned copper wire braid screen ('C4'), and a heavy-duty AD8

Typical uses: VFD Submersible Dewatering Pumps, Municipal Wastewater & Sewage Plants, Mine & Tunnel Sump Pumping, Hydroelectric & Lock-Gate Controls, Marine & Offshore Bilge Systems

Construction



Cross-section, not to scale

1	Flexible copper conductor ('-F')	EN 60228 Class 5
2	Water-resistant EPR insulation ('R')	EN 50363-1 / EN 50525-2-21
3	Water-blocking inner elastomer bedding	EN 50525-2-21
4	Tinned copper wire braid screen ('C4')	HD 361 S3
5	AD8 submersible polychloroprene sheath	EN 50363-2-1 / EN 50525-2-21

Technical data

Typical values

Rated voltage U0/U	450/750 V AC	Routine AC test voltage	2.5 kV rms / 5 min
Screen optical coverage ('C4')	≥ 85 % tinned copper wire braid	Wet insulation resistance	Stable under AD8 immersion
Conductor stranding class	EN 60228 Class 5	Operating frequency	50 / 60 Hz & VFD PWM
Max. water temperature (AD8)	+40 °C continuous submersion	Max. conductor temp. (in air)	+60 °C (EN 50525-2-21) / +85 °C EPR
Max. short-circuit temperature	+200 °C (max. 5 s)	Mobile ambient range (in air)	-25 °C to +60 °C
Fixed ambient range (in air)	-40 °C to +60 °C	Min. installation temperature	-25 °C
Min. bend radius (fixed)	4 × D (≤ 12 mm) / 5 × D (> 12 mm)	Min. bend radius (flexing)	6 × D (≤ 12 mm) / 8 × D (> 12 mm)
Max. submersion depth	10 m (EN 50525-2-21) / up to 100 m factory	Max. tensile pull on copper	15 N/mm ²
Crush & abrasion resistance	Heavy-duty EM2 polychloroprene	Gland termination	360° EMC compression gland compatible
AD8 permanent water immersion	EN 50525-2-21 Annex D/E certified	Oil, grease & sewage sludge	EN 60811-404 oil-resistant EM2 PCP
Flame retardance	EN 60332-1-2 self-extinguishing	Ozone & UV weather resistance	EN 60811-403 ozone-proof
EMC interference immunity	Shielded against VFD common-mode currents	Halogen status	Polychloroprene elastomer
Standards	CENELEC HD 361 S3 ('S07RC4N8-F')		

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	Phase size mm ²	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard S07RC4N8-F configurations 12 sizes						
☐ S07RC4N8-F 4G1.5	4G1.5	1.5	12.2	92	225	49
☐ S07RC4N8-F 4G2.5	4G2.5	2.5	14.2	142	310	57
☐ S07RC4N8-F 4G4.0	4G4.0	4.0	16.4	212	425	66
☐ S07RC4N8-F 4G6.0	4G6.0	6.0	18.5	302	565	74
☐ S07RC4N8-F 4G10	4G10	10	23.2	485	890	93
☐ S07RC4N8-F 4G16	4G16	16	26.8	735	1,250	107
☐ S07RC4N8-F 4G25	4G25	25	31.6	1,110	1,810	126
☐ S07RC4N8-F 4G35	4G35	35	35.2	1,520	2,360	141
☐ S07RC4N8-F 7G1.5	7G1.5	1.5	15.0	148	340	60
☐ S07RC4N8-F 12G1.5	12G1.5	1.5	19.2	240	530	77
☐ S07RC4N8-F 7G2.5	7G2.5	2.5	17.6	235	490	70
☐ S07RC4N8-F 12G2.5	12G2.5	2.5	22.4	385	765	90

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per EN 50525-2-21 AD8 / HD 361.

Electrical & ampacity data

12 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V rms
4G1.5	13.300	19	16	80	2,500
4G2.5	7.980	26	22	82	2,500
4G4.0	4.950	35	30	84	2,500
4G6.0	3.300	45	38	87	2,500
4G10	1.910	62	53	92	2,500
4G16	1.210	83	71	101	2,500
4G25	0.780	109	93	114	2,500
4G35	0.554	135	115	129	2,500
7G1.5	13.300	19	16	80	2,500
12G1.5	13.300	19	16	80	2,500
7G2.5	7.980	26	22	82	2,500
12G2.5	7.980	26	22	82	2,500

– Current ratings apply at +25/+30 °C ambient in free air; apply standard derating factors for elevated ambient or drum coiling.

Standards and approvals

✓ EN 50525-2-21 AD8 / HD 361

✓ EN 60332-1-2

✓ CE / RoHS

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/s07rc4n8-f-screened-heavy-duty-submersible-polychloroprene-rubber-cable



Typical values for this cable type, based on EN 50525-2-21 AD8 / HD 361. Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.