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Prysmian FP400 Cable Joints Fire Resistant Performance Prysmian FRZHMPJ4 Cable Jointing Kit to Suit Prysmian FP400 Cables up to 4 Core 35sqmm Prysmian FRZHMPJ4 FP400 Fire Resistant Cable Joint Prysmian FP400 Fire Performance cable joints are tested to BS6387 categories C,W and Z. FP400 straight joint kits feature low hazard isocyanate JEM jointing resin, fire retardant and LSOH joint shell, earth continuity for SWA armoured cables. Connectors excluded - Prysmian BICON crimps or Cembre crimp ferrules are suitable. Prysmian FRZHMPJ4 FP400 Straight Joints 2 Core Max Conductor 95sqmm 3 Core Max Conductor 35sqmm 4 Core Max Conductor 35sqmm Cable Joint Shell Dimensions A - 430mm B - 100mm C - 90mm Prysmian Fire Resistant FP400 cable joints (straight and branch) comply to BS6387 (C, W & Z categories). BS6387 specification covers the performance requirements for cables to maintain circuit integrity in fire conditions. C=Fire Resistant 950°Celsius for 3 Hours = Cable Joint Passed W=Fire Resistant & Water Spray 650°Celsius 15 Mins = Cable Joint Passed Z=Fire Resistant & Mechanical Impact Test 15 Mins = Cable Joint Passed. Prysmian JEM Resin FP400 4 Core 35sqmm Fire Performance Cable Joint - FRZHMPJ4 Prysmian Cable Joints, Glands, Cleats, Terminations - Catalogue Prysmian FP400 4 Core 35sqmm Cable Joint - FRZHMPJ4 Prysmian JEM Resin FP400 4 Core 35sqmm Fire Performance Cable Joint - FRZHMPJ4 Prysmian FP400 formerly manufactured as Pirelli - Fire performance cable armoured CWZ. Specification No. of Cores Size sq mm Insulation thickness mm Diameter of armour wire mm Approx diameter under armour Overall diameter Weight kg / km 2 1.5 0.6 0.9 10.4 14.8 420 3 1.5 0.6 0.9 10.9 15.5 426 4 1.5 0.6 0.9 11.9 16.5 520 7 1.5 0.6 0.9 16.2 520 12 1.5 0.6 0.9 20.9 860 19 1.5 0.6 0.9 24.1 1130 2 2.5 0.7 0.9 11.5 16.1 500 3 2.5 0.7 0.9 12.2 16.8 540 4 2.5 0.7 0.9 13.4 18.0 620 7 2.5 0.7 0.9 18.0 650 12 2.5 0.7 0.9 24.4 1130 19 2.5 0.7 0.9 29.2 1710 2 4 0.7 0.9 12.6 17.2 580 3 4 0.7 0.9 13.4 18.0 640 4 4 0.7 0.9 14.8 19.4 730 2 6 0.7 0.9 13.8 18.4 660 3 6 0.7 0.9 14.7 19.3 740 4 6 0.7 1.25 16.2 21.7 990 2 10 0.7 0.9 15.7 20.5 830 3 10 0.7 1.25 16.7 22.2 1080 4 10 0.7 1.25 18.6 24.1 1260 2 16 0.7 1.25 16.1 21.6 1000 3 16 0.7 1.25 17.2 22.9 1310 4 16 0.7 1.25 19.1 24.8 1640 2 25 0.9 1.6 16.3 22.0 1100 3 25 0.9 1.6 20.6 27.2 1800 4 25 0.9 1.6 22.9 29.5 2150 2 35 0.9 1.6 18.4 25.0 1550 3 35 0.9 1.6 22.9 29.7 2200 4 35 0.9 1.6 25.5 32.3 2650 2 50 1.0 1.6 20.6 27.4 1850 3 50 1.0 1.6 23.4 30.2 2450 4 50 1.0 1.6 26.9 33.9 3100 2 70 1.1 1.6 23.6 30.6 2450 3 70 1.1 2.0 26.9 33.9 3200 4 70 1.1 2.0 31.4 39.6 4400 2 95 1.1 2.0 26.7 34.7 3350 3 95 1.1 2.0 30.5 38.7 4450 4 95 1.1 2.0 35.2 43.6 5650 2 120 1.2 2.0 29.5 37.7 3900 3 120 1.2 2.0 33.7 42.1 5300 4 120 1.2 2.5 39.4 49.0 7250 2 150 1.4 2.0 32.5 40.9 4650 3 150 1.4 2.5 37.6 47.2 6700 4 150 1.4 2.5 43.5 53.3 8550 2 185 1.6 2.5 36.5 36.5 5950 3 185 1.6 2.5 41.7 51.5 8050 4 185 1.6 2.5 48.3 85.8 10300 2 240 1.7 2.5 40.6 50.6 7350 3 240 1.7 2.5 46.6 56.8 9950 4 240 1.7 2.5 54.5 64.9 12900 2 300 1.8 2.5 44.9 55.1 8700 3 300 1.8 2.5 51.3 61.9 12050 4 300 1.8 2.5 59.9 70.7 15550 2 400 2.0 2.5 50.0 60.6 10750 3 400 2.0 2.5 57.5 68.3 14800 4 400 2.0 3.15 67.3 80.0 20250 1. > Prysmian FP400® is the original fire resistant armoured cable providing an easy to install and terminate, robust fire resistant wiring system. In addition to maintaining circuit integrity during a fire, FP400® produces very low levels of smoke and virtually no (less than 0.3%) acidic gases, thus safeguarding human life and protecting equipment. FP400® handles like a standard armoured cable and can be installed just as easily. No special tools or accessories are needed for installation or termination of FP400®, which ensures that substantial installation cost savings, compared with MICC, can be achieved through its use. FP400® is suitable for indoor or outdoor installation requiring a robust armoured cable, including direct burial, trough, fixed direct, tray or ladder. Prysmian FP400® complies with BS7846 Category F2 which ensures that it complies with the requirements for "protected power circuits" given in the 2000 edition of Approved Document B Fire safety of The Building Regulations 2000. > Prysmian FP400® is British Approvals Service for Cables (BASEC) approved to BS7846 Category F2. It is also Loss Prevention Certification Board (LPCB) listed as a fire resistant cable and approved to BS6387 Category CWZ, at an enhanced voltage of 600/1000V. Witnessed ad-hoc tests have demonstrated the ability of FP400® to achieve fire resistant properties in excess of those required by BS6387 Category CWZ and on the basis of these tests Prysmian FP400® has been approved for many projects where previously only MICC had been approved. Additional tests have demonstrated the ability of FP400® to achieve a 60 minute rating (PH60) to BS EN50200 and a 30 minute rating to BS8434-1. These tests demonstrate that FP400® also meets the requirements for use in "standard" installations in accordance with BS5839-1:2002 for fire detection and alarm systems, and "Cables with inherently high resistance to attack by fire" in accordance with BS5266-1:2005 for emergency lighting. All Prysmian FP400® cables are manufactured under an ISO 9001 Quality System certified by BASEC and LPCB. > Prysmian FP400® may be considered as a low smoke armoured cable to BS6724 for the purposes of installation and should be installed in accordance with BS7671/IEE Wiring Regulations or any other appropriate national regulations. Although standard armour cable fixings and glands may be used, it is important to ensure that, when the cable is required to maintain circuit integrity in a fire, any fixing used to support the cable can also withstand that fire. The use of the appropriate BICON® gland or cleat is recommended. Temperature Range -25 to +90°C Bending Radius Circular conductor =6D Shaped conductor =8D Mechanical Impact Very Good Fire Performance BSEN60332-1-2 BSEN50266-2-4 Flexibility Rigid Halogen Free BSEN50267-2-1 Low Smoke Emissions BSEN61034-2 Fire Resistant BS6387 Category CWZ Certificate No 077b Certificate No 517b 2. Ambient Temperature °C 25 30 35 40 45 50 55 60 Rating factor 1.02 1.00 0.96 0.91 0.87 0.82 0.76 0.71 > Essential safety circuits associated with fire detection, fire alarm, emergency lighting and particularly for power supplies to building equipment used in safety systems. CONDUCTOR Plain annealed copper stranded (class 2) conductor for ease of handling. PRIMARY INSULATION Mineral ceramic (Mica/Glass) fire resistant tape SECONDARY INSULATION 90°C cross - linked insulation HARMONISED CORE IDENTIFICATION: o o brown-blue o o o brown-black-grey o o o blue-brown-black-grey 7-48 cores white with printed numbers NON HARMONISED CORE IDENTIFICATION: o o red-black o o o red-yellow-blue o o o black-red-yellow-blue Non harmonised colours to special order. BEDDING Extruded LSOH bedding compound. ARMOUR Single layer of galvanised steel wires. SHEATH Robust LSOH sheath. Colour - black. Other colours to special order Minimum recommended installation temperature 0°C. Suitable for indoor and outdoor installations. For external exposure the use of a Black sheath is recommended. Should be installed in accordance with BS7671/IEE Wiring Regulations or any other appropriate national regulations. Suitable for direct burial, trough, tray, ladder or other installations requiring a robust armoured cable. A minimum internal radius of bend of 6 x cable diameter is recommended during installations for cables having circular conductors and 8 x cable diameter for cables having shaped conductors. No special accessories are required for the installation of FP400®. Standard brass armoured cable glands and cast iron cleats may be used. When the cable is required to maintain circuit integrity in a fire, it is important that any accessory used to support the cable can also withstand that fire. The use of the appropriate BICON® gland or cleat is recommended. CURRENT RATINGS The tabulated ratings are based upon a 30°C ambient temperature and a 90°C operating temperature. For other ambient temperatures or where cables are grouped together, the following rating factors should be applied. Rating factors for Ambient temperatures \* Spaced by a clearance between adjacent surfaces of at least one cable diameter. Where the horizontal clearance between adjacent cables exceeds 2 cable diameters no correction factor need be applied Note. Standard conditions of grouping as stated in BS7671 IEE Wiring Regs apply Installation Method Number of circuits or multi-core cables 2 3 4 5 6 7 8 9 Single layer clipped to a non-metallic surface Touching 0.95 0.79 0.75 0.73 0.72 0.72 0.71 0.70 Spaced\* 0.94 0.90 0.90 0.90 0.90 0.90 0.90 0.90 Single layer multicore on a perforated metal cable tray, vertical or horizontal Touching 0.88 0.82 0.77 0.75 0.73 0.73 0.72 0.72 Spaced\* 0.91 0.89 0.88 0.87 0.87 - - - Rating factors for grouping of cables 3. Nominal cross sectional area mm2 Approximate overall diameter mm Approximate diameter under armour mm Nominal diameter of armour wires mm Approximate cable weight kg/km Maximum conductor resistance at 20°C ohms/km Short Circuit rating (1 sec) of conductor KA Current rating Three phase AC Clipped direct Amps Current rating Three phase AC Free Air Amps Volt drop Three phase AC mV/A/m Three Core 1.5 13.4 8.8 0.9 340 12.1 0.20 23 25 27 2.5 14.8 10.2 0.9 430 7.41 0.35 31 33 16 4 16.1 11.5 0.9 510 4.61 0.57 42 44 10 6 17.4 12.8 0.9 620 3.08 086 53 56 6.8 10 20.3 14.8 1.25 930 1.83 1.4 73 78 4.0 16 22.8 17.1 1.25 1210 1.15 2.2 94 99 2.5 25 27.4 20.8 1.6 1800 0.727 3.6 124 131 1.65 35 29.2 22.4 1.6 2100 0.524 5.0 154 162 1.15 50 33.0 26.2 1.6 2600 0.387 7.1 187 197 0.87 70 37.0 30.0 1.6 3400 0.268 10.0 238 251 0.60 95 40.6 32.4 2.0 4500 0.193 13.6 289 304 0.45 120 43.8 35.4 2.0 5500 0.153 17.2 335 353 0.37 150 48.0 38.4 2.5 6900 0.124 21.4 386 406 0.30 185 52.0 42.2 2.5 8200 0.0991 26.5 441 463 0.26 240 57.1 46.9 2.5 10200 0.0754 34.3 520 546 0.21 300 63.0 52.6 2.5 12200 0.0601 42.9 599 628 0.185 400 69.5 58.7 2.5 15000 0.0470 57.2 673 728 0.165 Four Core 1.5 14.3 9.7 0.9 390 12.1 0.20 23 25 27 2.5 16.0 11.4 0.9 490 7.41 0.35 31 33 16 4 17.3 12.7 0.9 590 4.61 0.57 42 44 10 6 19.6 14.1 1.25 830 3.08 086 53 56 6.8 10 21.8 16.3 1.25 1040 1.83 1.4 73 78 4.0 16 24.6 18.9 1.25 1370 1.15 2.2 94 99 2.5 25 29.1 22.5 1.6 2100 0.727 3.6 124 131 1.65 35 32.2 25.4 1.6 2500 0.524 5.0 154 162 1.15 50 35.0 28.0 1.6 3200 0.387 7.1 187 197 0.87 70 40.2 32.0 2.0 4500 0.268 10.0 238 251 0.60 95 44.0 35.6 2.0 5600 0.193 13.6 289 304 0.45 120 48.4 38.8 2.5 7200 0.153 17.2 335 353 0.37 150 52.5 42.7 2.5 8500 0.124 21.4 386 406 0.30 185 57.1 46.9 2.5 10300 0.0991 26.5 441 463 0.26 240 62.7 52.3 2.5 12800 0.0754 34.3 520 546 0.21 300 69.6 58.8 2.5 15600 0.0601 42.9 599 628 0.185 400 78.0 65.3 3.15 20400 0.0470 57.2 673 728 0.165 Circular conductor 1.5 - 35mm2. Shaped conductor 50mm2 and above. Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations. The tabulated ratings are based upon a 30°C ambient temperature and 90°C operating temperature. 4. Nominal cross sectional area mm2 Approximate overall diameter mm Approximate diameter under armour mm Nominal diameter of armour wires mm Approximate cable weight kg/km Maximum conductor resistance at 20°C ohms/km Current rating DC or Single phase AC Clipped direct Amps Current rating DC or Single phase AC Free Air Amps Volt drop DC mV/A/m Volt drop Single phase AC mV/A/m Two Core 1.5 12.9 8.3 0.9 310 12.1 27 29 31 31 2.5 14.1 9.6 0.9 380 7.41 36 39 19 19 4 15.2 10.6 0.9 450 4.61 49 52 12 12 6 16.4 12.0 0.9 530 3.08 62 66 7.9 7.9 10 18.6 14.0 0.9 630 1.83 85 90 4.7 4.7 16 21.4 15.9 0.9 920 1.15 110 115 2.9 2.9 25 23.7 18.3 1.25 1200 0.727 146 152 1.85 1.9 35 27.2 20.9 1.6 1600 0.524 180 188 1.35 1.35 50 28.0 21.2 1.6 2000 0.387 219 228 0.98 1.00 70 30.7 23.7 1.6 2400 0.268 279 291 0.67 0.69 95 35.3 27.3 2.0 3300 0.193 338 354 0.49 0.52 120 36.6 28.4 2.0 3800 0.153 392 410 0.39 0.42 150 39.3 30.9 2.0 4400 0.124 451 479 0.31 0.35 185 44.2 34.4 2.5 5700 0.0991 515 539 0.25 0.29 240 48.0 38.0 2.5 7200 0.0754 607 636 0.195 0.24 300 51.8 41.6 2.5 8300 0.0601 698 732 0.155 0.21 400 55.9 45.3 2.5 10500 0.0470 787 847 0.120 0.19 Seven Core 1.5 16.4 11.8 0.9 500 12.1 27 \* 29 \* 31 31 2.5 18.3 13.7 0.9 640 7.41 36 \* 39 \* 19 19 4 20.8 15.3 1.25 910 4.61 49 \* 52 \* 12 12 Twelve Core 1.5 21.2 15.7 1.25 850 12.1 27 \* 29 \* 31 31 2.5 24.0 18.3 1.25 1090 7.41 36 \* 39 \* 19 19 4 27.3 20.9 1.6 1550 4.61 49 \* 52 \* 12 12 Nineteen Core 1.5 24.2 18.5 1.25 1120 12.1 27 \* 29 \* 31 31 2.5 28.6 22.0 1.6 1650 7.41 36 \* 39 \* 19 19 Twenty-seven Core 1.5 29.4 22.8 1.6 1650 12.1 27 \* 29 \* 31 31 2.5 33.4 26.6 1.6 2150 7.41 36 \* 39 \* 19 19 Thirty-seven Core 1.5 32.2 25.6 1.6 2000 12.1 27 \* 29 \* 31 31 2.5 36.7 29.9 1.6 2650 7.41 36 \* 39 \* 19 19 \*The tabulated rating is as a two core cable and may be used where the number of cores carrying current does not exceed its square root of the total number of cores. 5. Ref:FP400/PY08/07 UK Sales enquiries Tel: 0845 767 8345 Fax: 023 8029 5465 UK Technical helpline Tel: 0845 767 8345 Fax: 023 8029 5002 Prysmian Cables & Systems Limited Chickenhall Lane Eastleigh Hampshire SO50 6VU United Kingdom For further information please see our dedicated FP website: www.fpcables.co.uk www.prysmian.co.uk Overseas Sales enquiries Tel: +44 23 8029 5481 Fax: +44 23 8029 5465 Overseas Technical helpline Tel: +44 23 8029 5481 Fax: +44 23 8029 5002 Information hotline Tel: +44 (0) 23 8029 5029 Fax: +44 (0) 23 8029 5437 cables.marketing.uk@prysman.com





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